



Congratulations

Class of 2016

This is the fifth time I write a thank you letter to my family and I end up deleting it because there is no word that can describe how thankful I am

Khalid Hussain Abdulla



It was very good

Srujana Adha



Just a Thankyou is not enough.It is not a degree that I attain today it is an accomplishment for me and my family.Thankyou Mumma,Papa & Bhai.Miss you.

Sonakshi Agarwal



This is for my parents who could not be here for me but am sure are remembering me and smiling at this very moment. That is all i need!

Ankit Agrawal



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Thank you to my family for their continued support and the brothers of Pi Kappa Phi for giving me an unforgettable college experience at ASU!

Rick James Ahlf



Mom & Dad, The sacrifices you've made to help your children be successful in life are indescribable. I never would have made it here without you.

Renaad Mohammed Alawi



There is no way for me to express my utmost gratitude for my parents for their continuous moral support throughout this journey

Mohammad Shakir A Alhabeeb



Mom I did it!

Fahad Alhajeri





@fultonengineering

Stay connected

It is time to look for a wife.

Hasan Bin-Shamlan Alhammami



As I graduate, a new journey begins I thank you for your kindness, thoughtfulness and prayers.

Meshari Thamer Alhemaiddi



*I'd like to personally thank my
Father and Mother for investing
in my education. Your son is now
a "Card-Carrying Engineer".*

Muawiya Ali Alkhalidi



Special thanks to my supportive family, friends and sponsor! Thanks to my great brothers and awesome sisters! I hope I have and will make you proud.

Amnah Eisa Alkhan



A group of people, mostly seen from the back, are wearing bright yellow t-shirts. They are holding up large, maroon and gold hand-shaped foam fingers with the ASU logo on the palm. One person on the right is holding up a yellow flag with the ASU logo. The background shows a large indoor arena with basketball jerseys hanging from the ceiling and a large screen displaying a group photo. The text "Share your victory" is overlaid in large white letters across the top half of the image.

**Share your
victory**

#ASUGrad #FultonGrad

I've met some wonderful people and had plenty of unforgettable experiences here. ASU and SEMTE will not be soon forgotten for me. Here's to the future

Mathew Ryan Allyn



***Special Thanks for my parents,
family and friends who always
support me in my journey.***

Hamad Salem Al-Marri



*My family, I'm so glad to see you all
around me during my graduation day
and sharing me the beautiful moment,
Thank you so much
Abdullah*

Abdullah Khalifah A Almohsen



*Thank you mom and dad, Faeda
Almoshawer, Mogdad Almoshawer
for your love and support couldn't
have done it without you*

Ali Mogdad M Almoshawer





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No words could describe how much I love you all. It means the world to me having you all around. I'm grateful for all the support, encouragement & love.

Israa Hussain A Alsharif



Thank you mom and dad, I could not have done this without you!

Nizar F. Altarooti



*Thank you family and friends to
whom I am forever grateful,
Cathy, Chad, Lee & Joan.*

Sarensen Althoff



Thank you Mommy & Daddy! I love and appreciate you both. We did it! You finally got your engineer :)

Sarah Elizabeth Amaro





Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

*It's been a long long long journey but
its finally done
hashtag mega senior
Thank you family and friends
Go Devils*

Dennis Amparo



*Thank you to my family and friends
for all of their unconditional love and
support over the past four years. You
have made me the person I am today.*

Lekha Anantuni



*Mom, Dad, Jocelyn, Trey, Matt, Kelsie,
Mimi, and Popper - I can't thank you
enough for all of your love and
support!
Love you guys!*

Benjamin Kyle Anderson



*Thank you Mom and Dad for
helping me through my college
years!*

Danielle Elizabeth Anderson





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***Papa, Mummy thanks for all the
love and support through the
years!***

Rushil Anirudh



***Thank you to my family an
friends!***

Raghavendra Ankanna



*Thank you Mom and Dad for
believing in me :)*

Gaurika Annapantula



***This is for you, Amma and
Daddy.***

***With love, your kid,
Krithiga Aruljothi, M.S.***

Krithiga Aruljothi



Using a Bi-Exponential Model to Analyze T2-weighted MR Images of Cervical Spine

The University of Queensland

St. John's School of Medicine

Faculty of Health and Behavioural Sciences

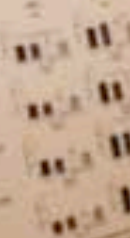
Introduction

Cervical spine degeneration is a common condition that affects the spine and surrounding structures. The spine is a complex structure that supports the body and allows for movement. Degeneration of the spine can lead to pain, stiffness, and loss of function. This study aims to analyze T2-weighted MR images of the cervical spine using a bi-exponential model to quantify the degree of degeneration.

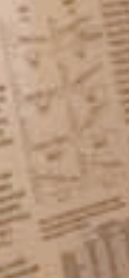
Background info

The spine is a complex structure that supports the body and allows for movement. Degeneration of the spine can lead to pain, stiffness, and loss of function. This study aims to analyze T2-weighted MR images of the cervical spine using a bi-exponential model to quantify the degree of degeneration.

Results



The results show that the bi-exponential model is effective in quantifying the degree of degeneration. The model parameters are related to the T2 relaxation times of the spine, which are affected by degeneration. The results indicate that the model can distinguish between different levels of degeneration.



The literature review highlights the importance of understanding the underlying mechanisms of spine degeneration. It discusses the role of various factors such as age, genetics, and lifestyle in the development of degenerative spine disease. The current study contributes to this understanding by providing a quantitative measure of degeneration.

Literature cited

1. Smith, J. et al. (2010) Cervical spine degeneration: A review of the literature. *Spine*, 35(12), 1345-1355.

Acknowledgements

The authors would like to thank the following individuals for their assistance in this study: [Names]



I wish I could find the right words to thank my parents and friends and family. Looking that I made this far, I realize how patient the world is.

Siddhartha Ayyagari



***Thank you Amma & Dadda for all
the support and encouragement.***

Pavan P Badami



I feel immense pride today on completing my Masters and would like to thank my parents, teachers, friends for their unwavering support.

Rohit Nagaraja Badida



*Thank you to my wonderful family
for encouraging me to pursue my
dreams and supporting me every
step of the way. I love you all!*

Nicole Kristen Bajka





**Don't forget
to write!**

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**News for alumni
and friends**

Graduation reminds me of everyone who has touched my life. So happy to have my family with me on my big day. Thank you mom and dad!

Thejasri Balaraju



I would like to thank the Almighty, my family, friends and my well wishers for believing in me and helping me strive through my journey at ASU and USA

Swastik Banerjee



NOW! Gotcha! The biggest thank you to my Mom and Dad for being the biggest influences in my life. Their incredible work ethic will always inspire me.

David Kato Barclay



It has been an amazing journey that I will cherish forever! I could never have done it without the support of my family and friends. I love you all!

Andrew Robert Barkan



A group of people, mostly seen from behind, are wearing bright yellow t-shirts. They are holding up large, maroon and gold hand-shaped foam fingers with the ASU logo on the palm. One person on the right is holding up a yellow flag with the ASU logo. The background shows a large indoor arena with basketball jerseys hanging from the ceiling and a large screen displaying a group photo. The text "Share your victory" is overlaid in large white font across the top half of the image.

**Share your
victory**

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*I want to thank my family, my brothers, my friends, and everyone who has helped me knowingly or unknowingly in achieving this goal.
LB86!*

Jesus Rene Barrientos



Four years ago, never did I see myself graduating with a degree in engineering; but here I stand today, having done what I thought was not achievable.

John E. Beard



*Shona Becwar thanks her family
for their unwavering and
enthusiastic support to do what
she loves.*

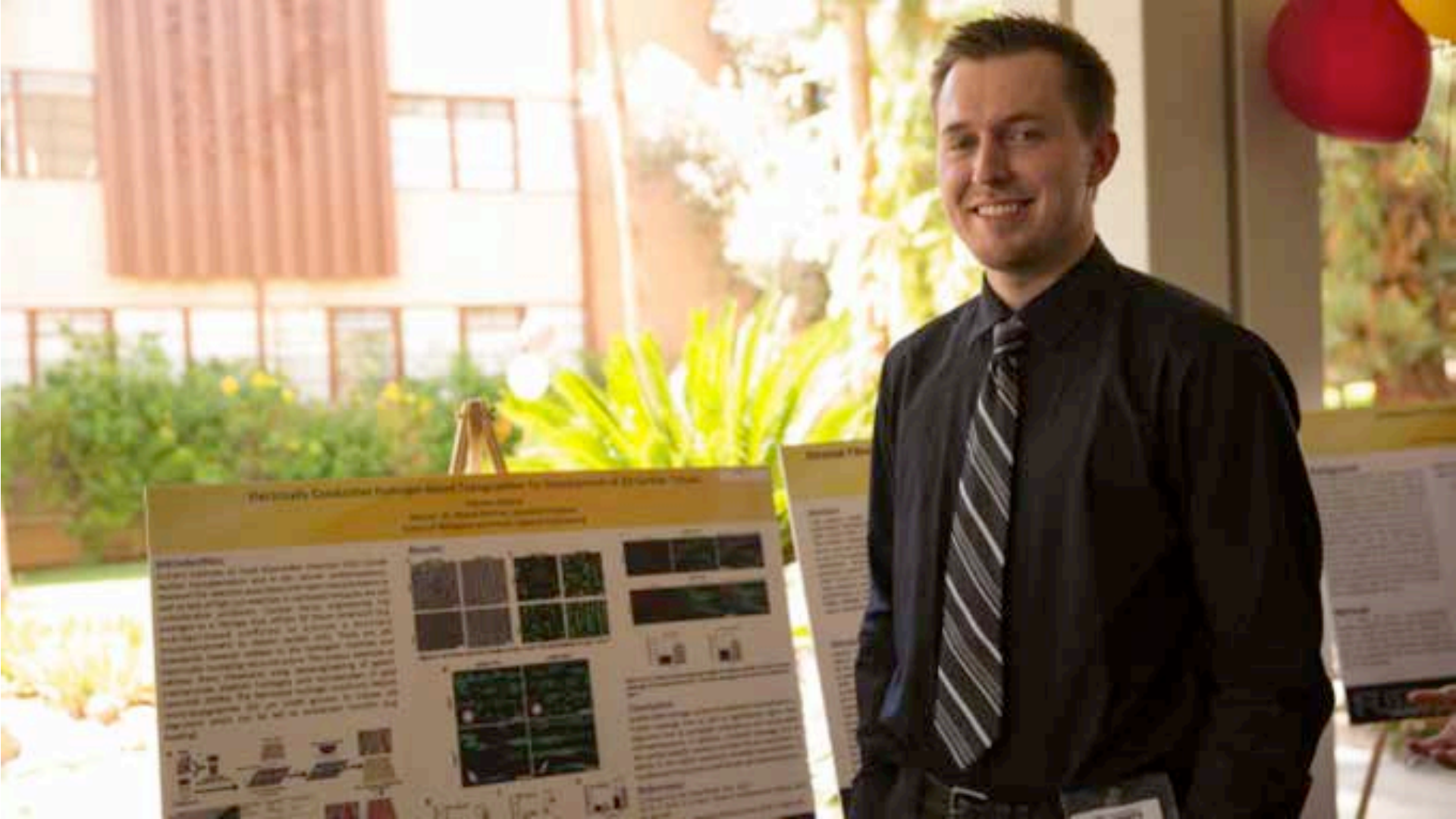
Shona Marie Becwar



*Thank you ASU, for teaching me
Friendship, Understanding,
Community, Kindness, Youth,
Optimism, Unity, Adventure,
Leadership, and Leisure!*

Ben Beechamp





Herbivore-Induced Plant Signaling: Implications for Sustainable Agriculture

Dr. [Name], Department of Plant Biology, University of [Location]

Introduction
Plants possess a sophisticated signaling system that enables them to respond to various environmental cues, including herbivory. This system involves the perception of damage, the activation of signaling pathways, and the subsequent production of defense compounds. Understanding these processes is crucial for developing sustainable agricultural practices that reduce the need for synthetic pesticides.



Discussion
The findings presented here highlight the importance of plant signaling in the context of sustainable agriculture. By understanding the mechanisms of herbivore-induced signaling, we can develop strategies to enhance plant defense and reduce the reliance on synthetic pesticides.

References
[List of references]

Abstract
[Abstract text]

To my friends, I'll see you on the other side.

To my family, thank you for the support.

To my mother and my father, thank you for everything.
-Rom

Roman Antone Beltran



Plenty of opportunity at ASU! I've had a ball working as a CA in the dorms, taking classes, & competing with ASU's Roller Derby team. Thanks Mom & Dad

Vivian Rose Benjes



*Thank you everyone who made
this possible, I could not have
done it without you.*


Grady Stephen Bensted



***Mom,
I would have never done this without
you. You know I didn't want to walk so
happy birthday/Merry Christmas!
Love, your poor college GRADUATE :)***

Faye Berdine



A group of graduates in maroon and gold regalia celebrating at a graduation ceremony. Many are making peace signs and holding up their diplomas. The scene is filled with joy and excitement.

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To the best family in the whole world, thank you for you support, guidance, and love! I couldn't have done it without you!

Justin Zachary Bessant



I would like to thank my Parents, who are God to me, my friends, and faculty at ASU. Though a short time that I spent here, ASU is a part of my life.

Aakash Bhansali



Thank you mom and dad for always supporting me. I am here today only because of you. Love you - Akshay Bhatia

P.S. - Sis you're next!

Akshay Bhatia



I would like to thank my Parents & friends for all their support, love & encouragement! Without them, I would never had been able to reach here :)

Supal Subhash Bhosale





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*Thank you for coming. It was
hard work and I appreciate you
for coming.*

Butch Dana Billy



*Thanks to my parents for their
support and believing in me*

Deepanjan Biswas



I want to say a BIG thank you to my family. Without you, I won't be in this position. I also want to thank my wife, NOEMI...tequiero mucho, mi amor.

Andrews Boateng



Thank You Mom, Dad & Chaitu for your support throughout my education. This wouldn't have been possible without you. Thanks to all my teachers.

Naga Shashank Borra





Congratulations

Class of 2016

*Thanks Mom & Dad for all the love
and support over the few years.
Special thanks to Dr. Wells, Dr.
Takahashi & Dr. Garrett. Go Sundeivils*

William Walston Bowers



*Thanks for sharing with me your
love and your secrets about this
crazy world.*

James Daniel Bradshaw



Pursuing a degree in engineering has shaped me into the person I am today. I could not have done it without the support of my Father, Anna, and Zane.

Zachary Thomas Branum



I would like to thank my friends and family for all their support throughout my college experience and God for his continual guidance.

Cole Truman Brown



A photograph of a graduate in a maroon cap and gown with an orange stole, holding a large yellow balloon. He is wearing glasses and smiling. Other graduates in maroon gowns are visible in the background, some also holding balloons. The scene is a graduation ceremony.

Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

Thank you Chastity for believing when I didn't and to my boys for always keeping me grounded. Thank you Mom for everything you have ever done.

Jacob Ryan Brown



It was a fun thrilled and productive years at ASU. Proud to be a Sun Devil (Fear the fork). I thank my other half, parents and friends. Love you!!

Madhu Buggana



To Bill, Sarah, Maddy, Lily, and Wendy:

*I cant thank you enough for all that you
have done for me these past four
years, now I've ran out of space...*

William Davis Burk

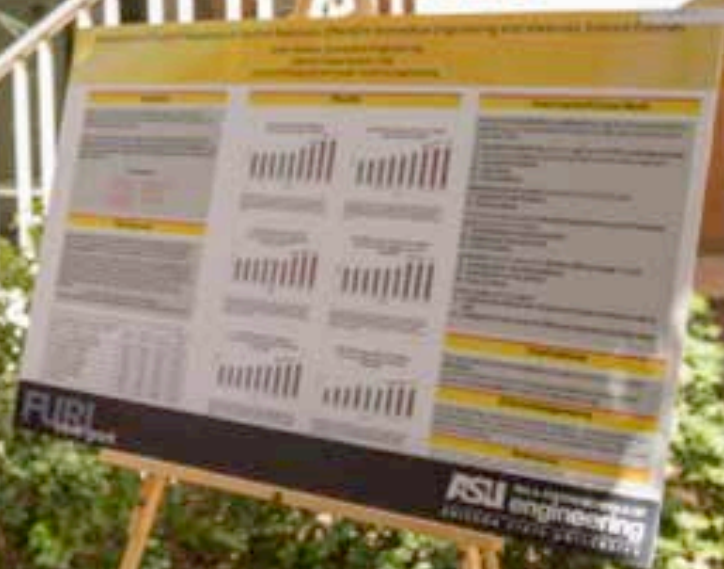


*Thanks to my beautiful wife Karen for all your encouragement and support these last few years. Couldn't have done it without you.
Love you!*

-Danny

Daniel Bush





To my family and friends, who helped make this day possible. I miss you dad, I wish you could had lived to see this.

Steven Gregory Bushey



***Making a path while all these
others drive straight***

Dawson Gaston Cannon



Thank you to all my family who has supported me through all the good and the stressful times I've had so far! I couldn't have done it without you!

Andrea Canonigo Carpenter



This is for you AMMA and APPA

Shanthosh Chandramouli





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*Thank you, mom (Hattie), Myrtle,
and Layne for always believing in
me and supporting my dreams of
becoming a biomedical engineer.*

Duran Marshal Charles



I deeply thank my family and friends for supporting me through my education at ASU.

Ramani Chavan



I am so excited today. I want to say "Thank you" to my parents here. Because they help me achieve my academic dream. Again, thank you my family.

Sumeng Chen



*My deepest gratitude to my
beloved parents, my whole
family, and my dear friends!*

Yuzhong Chen





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I would like to express my gratitude to my parents for their love and support. I also want to express my love to Shuwei who was constantly on my side.

Qian Cheng



***Thank You Mom , Dad and Leo
for making this happen !***

Sameeksha Cherla



***Thanks to my family, my friends,
and all the people who care me!
Love you, my mom! Thanks for
coming!***

Jingru Chi



Thanks so much to my parents for still supporting me even though I barely ever called home. I swear it was only because I was always busy studying...

Nicholas Alexander Childress





**Don't forget
to write!**

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**News for alumni
and friends**

***Thank you Mom and Dad for
coming here!!***

Krishna Baradwaj Chivukula



*Thank you so much to my family
and also my roommate Gaurav
Pokharkar without whose support
this wouldn't have been possible!*

Akshay Choudhari



Thank you to my friends and family for your love and support, I couldn't have made it without you all.

Jeffrey Glenn Christensen



***¡Muchas gracias por su apoyo
familia! ¡Los amo!***

Javier Alfonso Corral Clayton





5/17/2018

A Guide and Effective Student-Graded Homework System

John H. Johnson, Brandon J. Johnson
Department of Mathematics, American University
Washington, DC 20004

| Introduction | Methods | Results & Discussion | Conclusion |
|--|--|--|--|
| <p>The purpose of this study was to evaluate the effectiveness of a student-graded homework system. The study was conducted over a period of 10 weeks. The results show that the student-graded homework system was effective in improving student performance on homework assignments. The study also found that the student-graded homework system was effective in reducing the amount of time spent on homework assignments. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class preparation. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class participation. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class discussion. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class presentation. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class evaluation. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class reflection. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class feedback. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class improvement. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class evaluation. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class reflection. The study also found that the student-graded homework system was effective in increasing the amount of time spent on class feedback. 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*Special thanks to my family for
all of the support through this
experience.*

Paul Alan Compton



Thank you for all the love and support! I love you guys!

Donald Joseph Corbin



I dedicate this triumph to my parents, whom without I'd be nowhere near the person I am. I love you both.

Melissa Cortez



***Thank You Mom and Dad for all
that you have given me!
Love, Connor***

Connor Thomas Culhane





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Stay connected

Thank you to everyone that has guided and mentored me to this point. I could not have made it without you!

Avi Ryan Dasgupta



*I love you mom, dad, Luke, and
Ryan! Thank you for supporting
me through ASU!! Go Devils!
Thank you for being here!*

Andrew Nicholas DeFatta



*Here's to the best people I have
ever known. You guys rock!*

James Deluca



Thank you Dad & Mom for all your love, support and for coming all the way from across the globe to ASU. I am here all because of you.

Varun Sudhindra Desai



Graduation photos

A group of graduates in maroon caps and gowns with orange stoles, smiling during a ceremony. The graduates are seated in rows, and the background is filled with a large crowd of people. The lighting is bright, suggesting an outdoor or well-lit indoor venue.

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

***Thanks ASU! It has certainly
been four years.***

Alex Robert Devonport



Cheesy line here...

Brandon John Dewitt



*Thank you very much to mom
and dad. It's only possible
because of your support and
blessings.*

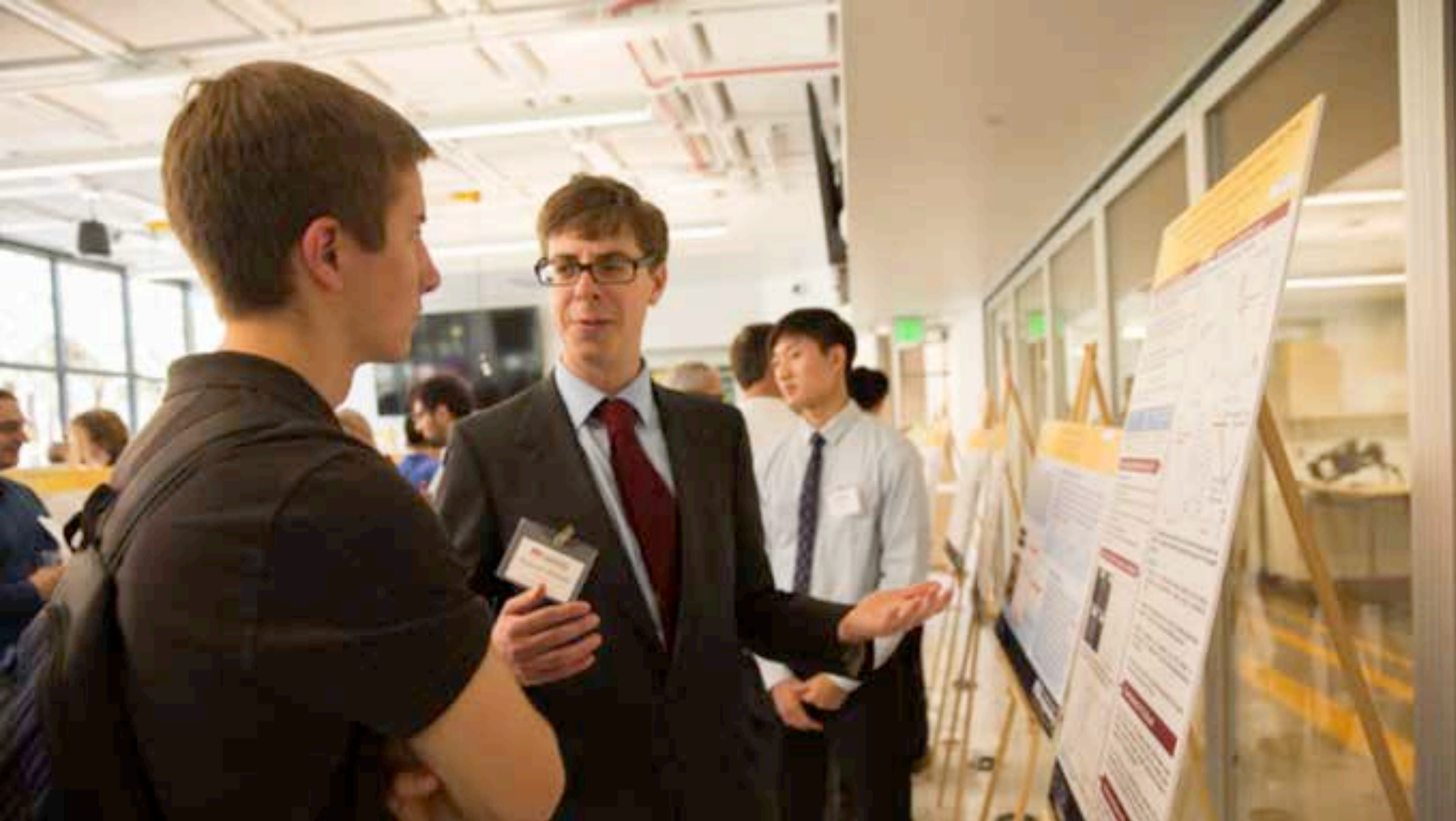
Chinmay Nrusinha Dharmadhikari



***This is a personal thank you to
all the people who deserve a
personal thank you... So thank
you!***

Lucas James Dixon





LOVE YOU MY FAMILIES!!!

Jieqiong Dong



I want to thank my parents and brother for being such a huge support through my experiences! I couldn't have made it without you all! Love you!

Isha Doshi



*Thank you Mom, Dad, Caitlin and
the rest of the family for all the
support.*

Christopher Alexis Dourov



I feel so special and blessed to be standing here. This is for you Mummy, Papa, Didi, all mamas, entire family and all my friends. Jai Gurudev!

Apoorva Dube





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Thanks friends and family for supporting me throughout my time here at ASU! I couldn't have done it without you!

John Austin Duggan



Had an interesting two years at Arizona State. Looking forward to what the future holds for me. I would like to thank my parents and friends.

Dhruba Dutta



*It's been a fun, memorable,
challenging, AWESOME four years at
ASU. Thanks to everyone who helped
get me here! Engineering = sexy, and
GO DEVILS!!*

Jeremiah Robert Dwight



*A very thanks to Appa, Amma, Anna,
Anni, Thanvi and Paapu. Love you
All!! Your guidance and unconditional
love made this happen.*

TamilAmudan Elango



@fultonengineering



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*I would like to thank my mom.
Without her I would not be able to
attend ASU, let alone graduate. She is
amazing and inspiring. I love you,
mom!*

Andrew Dustin Emerson



When I was little you always told me I could be whatever I wanted to be when I grow up, thank you for helping me become that person. I love you!
-KB

Kiah Engebretson



*Thank you mom for all that you do.
You are the most amazing person in
the world and I really appreciate all of
the support and guidance you give
me!*

Brady Thomas Falk



***Yes, I graduate!!!!!!!!!!
Thank you all!!!!!!!!!!***

Xi Fan





*Thanks to my Parents!!
Thanks to my Family!
Thanks to all my friends*

"I LOVE YOU ALL" :)

Mohammed Yousef A Al Faraj



Higher flies the duck! Thank you to my family who has taught me how to critically think, be independent, and care. I love you all!

Paige Farrell



*Thank You so much Mom, Adam,
and Dad. This is for you.*

Ryan John Farrer



Thank you Mom and Dad for supporting me in my dreams of pursuing a college education.

Miriam Yanelly Acosta Felix



A group of people, mostly seen from behind, are wearing bright yellow t-shirts. They are holding up large, maroon and gold hand-shaped foam fingers with the ASU logo on the palm. One person on the right is holding up a yellow flag with the ASU logo. The background shows a large indoor arena with basketball jerseys hanging from the ceiling and a large screen displaying a group of people. The overall atmosphere is celebratory.

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Thanks fam

James Finch



Le doy gracias a dios por haberme dado unos padres de buen corazón y mucho esfuerzo. Los amo con todo mi corazón mamá, papá, Griselda, y Brandon.

Beatriz Adriana Gracia Flores



*Thank you Mom, Dad, Shannon
for your unfailing support even
amidst the great distance from
home.*

Nicholas Shane Fortenberry



***Thank You For Everything Mom
and Dad!***

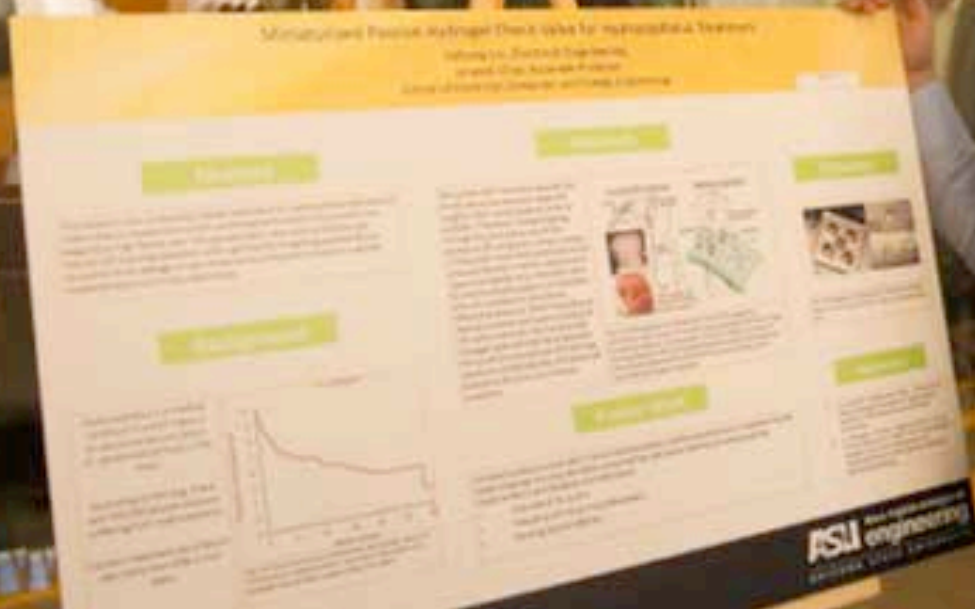
Joshua Arden Foster



*Thank you Mom & Dad for
supporting me and always being
there for me these four years!*

Thomas Guo Fou





This library is so loud and crowded.

-Alexander Niebroski

Coleen Rae Fox



Thanks Mom and Dad for understanding how cool, amazing and buff I am. You couldn't have watched your son graduate without me.

-Me

Maxwell R. Franklin



Thank you to my parents who sacrificed so much to make my college experience a great one. I am happy to share this achievement with the whole family.

Ryan Thomas Frantz



Thank you to my family for all of the love and support they provided throughout my undergraduate degree and beyond. I love you all!

Sabrina Louise Freeman



A group of graduates in maroon and gold regalia celebrating at a graduation ceremony. Many are making peace signs and holding up their maroon diplomas. The scene is filled with joy and excitement.

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*Thank you mom and dad for all
of your support! I wouldn't be
here without you!*

Ryan Windsor Frost



Thanks mom! And Dad!

Wesley Stevenson Fullmer



Thank you to my father John Galvan for always working so hard for his family and my education. I love you Dad. -Matt

Matthew John Galvan



I would like to thank my mom, dad & sister for their support and encouragement throughout my studies at ASU. Thanks Mom... Thanks Dad... Thanks sis..

Sai Akshit Kumar Gampa



A group of graduates in maroon caps and gowns are celebrating. They are holding diplomas and making hand gestures, including the 'L' sign. The scene is joyful and celebratory.

Congratulations

Class of 2016

Thank you for the love and support you guys have shown me these past couple of years. You guys are the real MVP. Now let's party!

Jorge Garcia-Rivera



***One Way, One Truth, One
Life--JC***

Isaac Garnica



You have all made college, work, and life so much better. Family, friends - thank you all for everything. Be excellent to each other.

Davis Leland Gilton



I would like to thank everyone who stood with me and helped me throughout Masters degree. It was an eventful 2 years of unforgettable life experience!

Ujjwala Godavarthi





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Thank you, Mom and Dad, for giving me the world and pushing me to run with it. I couldn't have done it without you. I love you!

Emma Nicole Goddery



*Gracias ma y pa por todo su amor y apoyo incondicional, ustedes son mi orgullo.
Thanks God, family, babe, and friends. You're awesome.*

Los amo mucho!

Karime Jocelyn Rosas Gomez



I want to thank my family: both Indian and American for all your support and love.

Hamsini Gopalakrishna



What a long strange trip it's been

Zachary Daniel Gordon





Thank you mom & dad for giving me this opportunity and having the confidence in me. You were always there for me in all my times. Love you Mom & Dad..

Tapaskumar Govindraju



Thank you to my family for the love and support all these years. I could not have done it without you.

Travis James Grabowski



***Thank you for all of your
unconditional love and support!
It kept me sane these four, crazy
years!***

Samantha Mari Gramer



Thank you ASU for providing me with all the resources for completing my MS, PhD in Biomedical Engineering. I enjoyed every bit of my stay here.

Taraka Sai Pavan Grandhi





**Don't forget
to write!**

fullcircle.asu.edu

**News for alumni
and friends**

***Your love and support did it.
Thank you to my family and
friends.***

Sushanth Gudla



***This degree belongs to so many
well-wishers!***

THANK YOU ALL!

Special thanks to you, Mother!

I LOVE YOU!

Saransh Gupta



Thank you SO much Amma and Appa for being so supportive and amazing. I love you both a lot! Thank you ASU for the wonderful experience!

*Love,
Nriya*

Nriya Guru



***Special Thanks to the best and
MOST Honorable SIGMA
LAMBDA BETA INTERNATIONAL
FRATERNITY INC.***

Leonardo Gutierrez





Congratulations

Class of 2016

I would take the privilege to thank my parents for their constant support and for being my strength through all my accomplishments.

Snehitha Guttikonda



*Thanks to everyone who
supported me through all these
years.*

Timothy Louis Hafkey



Thanks, Mom!

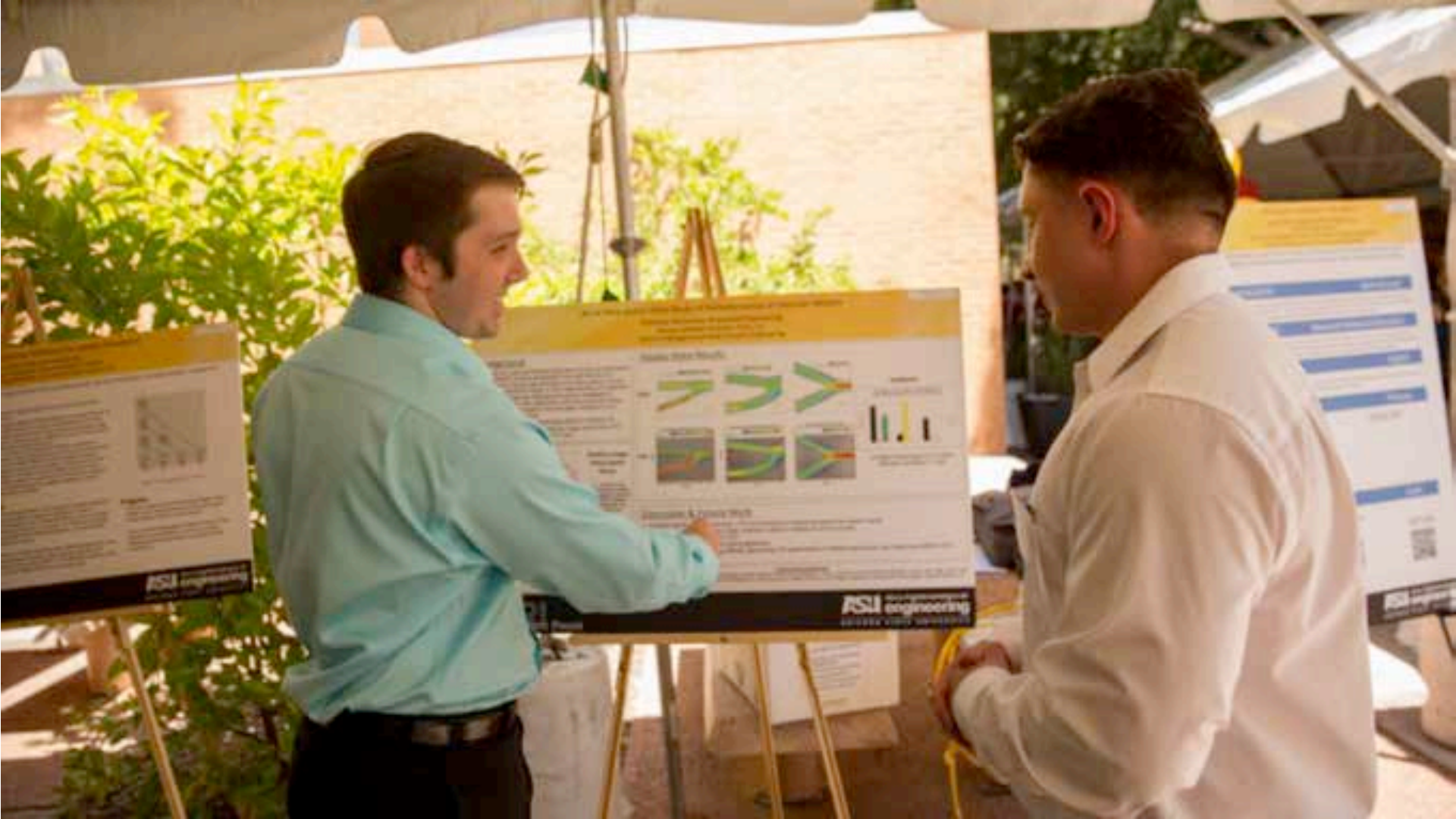
John P. Harrington



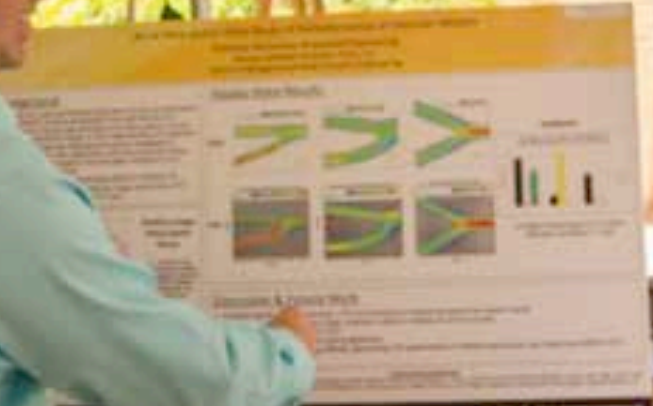
*Thank you to my family for all
your love and support
throughout this journey!!*

Mark Ryan Harrison





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| Category | Value |
|-------------|----------|
| Category 1 | Value 1 |
| Category 2 | Value 2 |
| Category 3 | Value 3 |
| Category 4 | Value 4 |
| Category 5 | Value 5 |
| Category 6 | Value 6 |
| Category 7 | Value 7 |
| Category 8 | Value 8 |
| Category 9 | Value 9 |
| Category 10 | Value 10 |

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To my family who supported me through all of the long, stressful nights, thank you! While I take a new step on my journey, I owe it all to you!

Brian Michael Hedden



***Thanks to my parents and
siblings for their precious
support and showing faith in me***

Sayed Mohammad Hejazi



Thank you for always being there. Love you all. Look Eema, my name is actually on the screen this time. Thank you ASU!

Clayton Randall Hemann



*Thank you everyone for your
support! <3*

Carissa Mae Henriksen





@fultonengineering

Stay connected

Thanks to my Mom and Dad for their steadfast support, through good times and bad. Couldn't have done it without you!

Stephen Edward Hermens



***Thanks mom and dad for all of
the support over the years!
Love you guys,
Brendan***

Brendan James Hernandez



*Thank you to my friends and family
that have supported me through
this journey. College would only be
a dream without you!*

John Michael Hernandez



Thanks to Tiff, kids, Mom, & Dad!

Mark Phillip Herzog





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*I wouldn't be on the path that I am
if it wasn't for those that I love.
Thank you to my family and friends
for all of your love and support.*

Garrett Wayne Heuer



I really benefited from meeting many innovative, inspiring, and outgoing people at ASU from the immense amount of opportunities offered.

Andrew William Hickey



*Mom & Dad, I am so blessed to be your son.
Thank you for your endless support and
guidance.*

*Sisters, Thanks for being the best siblings
possible! :)*

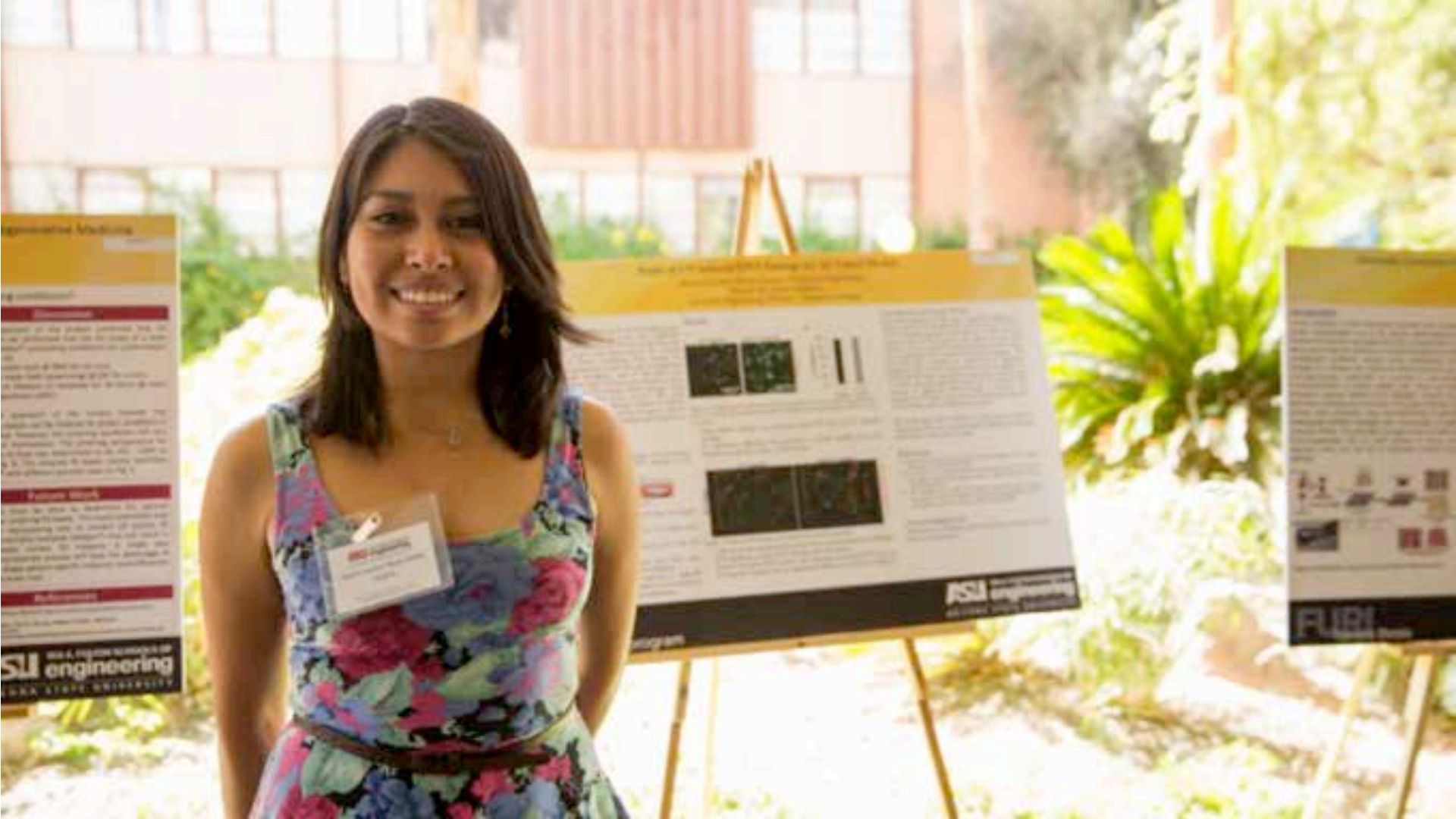
Suhail Hiermandi



Thanks mom and dad for being so supportive throughout college. And a special thanks to mom for regularly telling me my grades before I even knew them.

Kyle Braden Hildebrand





Regenerative Medicine

Introduction

Regenerative medicine is the process of restoring the body's natural ability to heal itself. This involves using stem cells, growth factors, and other biological materials to stimulate the body's natural healing process.

Future Work

Future work in regenerative medicine will focus on developing new therapies for a wide range of conditions, including heart disease, stroke, and spinal cord injury.

References

1. [1] [2] [3] [4] [5] [6] [7] [8] [9] [10]

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Chris Hoang: Thank you for being there for me. I owe my Master to my FAMILIES. I am a Sun Devil, a Fulton, a Hoang, and proud to be ONE

Chris Hoang



Mom, Dad, Antony, Taylor:

Thank you for your support! I couldn't have done it without you!

*Love,
Alex*

Alexandra Quinn Hoffmann



*Thank you to my family, professors,
classmates, mentors, and friends for
all of your support during these four
years. Good luck to the class of 2016!*

Mikayle Ashlyn Holm



Thanks fam, friends, and Alaska.

Denton Gene Holzer



A group of graduates in maroon caps and gowns are celebrating. Many are holding up their diplomas and making peace signs. The scene is joyful and celebratory.

Congratulations

Class of 2016

*Thank you so much Mom, Dad,
and Hannah for always
supporting me. I couldn't have
done this without you guys.*

Benjamin E. Hook



Big thank you to my parents Brian and Lisa for supporting me throughout this journey. Also thank you to all my family and friends for coming out here!

Eric Horton



Thank you my wife Xinming Lin, my father Yaquan Huang, my mother Riqing Jiang and my brother Jianhua Huang for their endless support

Qiuhua Huang



*Thanks for my advisor Dr.
Hildreth's support and direction.*

Yiwen Huang





Congratulations

Class of 2016

*Thank you to all who helped me
get here, familia y friends. Son
una bendición. Gracias!*

Edgar Hurtado



Thank you mother for all your support. It is for you I owe everything to

Ahmad Hussain



Thank you, Mom and Dad, for encouraging and supporting me through my many times of stress, excitement, frustration, and celebration.

Chad Michael Hyslop



I want to thank my family for supporting me through this journey and keeping me motivated through these past several years. I love you all!

Kayla Lynn Iddings





A big thank you to Fulbright and the U.S. Dept of State! A special thank you to my awesome parents! It's been a privilege to be a part of ASU!

Hassaan Idrees



*I would like to thank my Mom and
Dad for supporting me all along..
Love you Mom&Dad....*

Sasya Inampudi



*Thank you Baba, Mama, Alexi and
Tasso for all your encouragement and
support over the years!*

*Love,
Georgaki*

Georgios Nikolas Ioannidis



I love you Mom

Mohamad Jahami



@fultonengineering



Stay connected

*I couldn't have done it without you
Sara!
I love you!*

- John

John Robert Jakoubek



"I proved to daddy that I am not a fool!" Thank you guys for all your love and support!

Curtis Jarman



Dear appa and amma,

*Thank you for your love and support. Love
you!*

-Sneha

Sneha Jayaprakash



Graduation photos

A group of graduates in maroon caps and gowns with orange stoles, smiling during a ceremony. The graduates are seated in rows, and the background is filled with a large crowd of people. The lighting is bright, suggesting an outdoor or well-lit indoor venue.

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

*To my most loving, wonderful,
beautiful family for their support,
hugs, kisses, and words of
encouragement. Also... No debt!*

Kirsten Jane Jefferys



It's been a great ride! Thank you for all your support. Keep watching for something amazing... love you guys!

Blake Jennings



*Thanks to everyone that still believed
even during the worst of times, now
you have something to be proud
of....The Journey Continues!!*

Derrick James Johnson



Lisa Johnson and Tony Johnson: I couldn't have done this without you. Thank you for all your love, support, and encouragement.

- Miles

Miles Anthony Johnson





Minimal Knee Sensors for Monitoring Rehabilitation

Abstract

Testing Data & Results

Design & Development



FURI
research program

Thank you mom and dad for being the best kind of support system anyone could ever have and for making me into the person I am today! I love you both!

Nehal Jolly



*Thank you to my family for all
your support through my
undergraduate and graduate
degree!*

Michael James Juby



*Thank you for your constant love
and support, I would not be here
without you!*

Pradyumna Sanjay Kadambi



*Thank you mom and dad for
supporting me in my endeavors.*

Nageswara Naveen Kadimcherla





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Thanks Mom and Dad. Thank you to my Theta Tau Brothers. Rah! Rah! Thank you to my friends and family that have gotten me here.

Jordan Tyler Kalafut



I want to give a HUGE thanks to my family who have been supporting me over the years. Your love & support means more to me than you will ever know.

Po-Chun Kang



Thank you to (in ascending order) my friends, family and God.

Christopher Aaron Kantzos



I would like to thank God and my family for their continued support in my education and career growth. I miss you dad. Love u James Kariuki family

Mary Njeri Kariuki



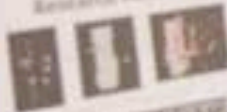
A Novel Methodology for Self-Healing at the Nanoscale to OX/Spox Coaxposites

Chia-Hsiang Chang, Research Group Engineer
Wenbin Xu, Assistant Teaching Professor
Kuan-Hsiung Chang, Ph.D. Student, Graduate School

Background Information

Self-healing materials are a class of materials that can repair themselves after being damaged. This property is highly desirable for many applications, especially in the field of aerospace and automotive engineering. The self-healing mechanism can be achieved through various ways, such as microcapsules, vascular networks, and dynamic covalent bonds. In this research, we focus on the self-healing mechanism based on dynamic covalent bonds.

Research Methods



The self-healing mechanism is based on dynamic covalent bonds. The material contains a network of dynamic covalent bonds that can break and reform under certain conditions. When the material is damaged, the dynamic covalent bonds break, and the material is exposed to a healing agent. The healing agent reacts with the broken bonds, forming new dynamic covalent bonds and repairing the material.

Research Goal

Develop a novel methodology for self-healing at the nanoscale to OX/Spox Coaxposites



Discussion/Conclusion

The self-healing mechanism is based on dynamic covalent bonds. The material contains a network of dynamic covalent bonds that can break and reform under certain conditions. When the material is damaged, the dynamic covalent bonds break, and the material is exposed to a healing agent. The healing agent reacts with the broken bonds, forming new dynamic covalent bonds and repairing the material.

Thank Word

We thank the funding agencies for their support of this research.

Acknowledgements

We thank the funding agencies for their support of this research.

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engineering
EXPERIENCE. INNOVATION. LEADERSHIP.

Thanks Dad & Brandon for only kind of doubting me! Thanks to our mums, Lisa and Sheela, for praying real hard for us the past 4 years. Ma we made it!

Wesley Martin Karlin



*Thank you mom for my strength;
thank you dad for my
relentlessness; I thank God for
the both of you.*

Ryan A. Karns



***Thank you Mom and Dad. I owe
this to you !!***

Manjiri Madhukar Katmore



***Thanks to MomIL,Mom,Dad,Di, Dev
Bhaji, Hanspal and Harleen for all the
moral support. A very special thanks
to Mandeep for being my source of
strength***

Gurinderjit Kaur



A group of people, mostly seen from the back, are wearing yellow t-shirts and holding up large, maroon and gold hand puppets. The puppets have the ASU logo on the palm. One person on the right is holding a yellow flag with the ASU logo. The background shows a gymnasium with basketball jerseys hanging from the ceiling and a large screen displaying a group photo. The overall atmosphere is celebratory.

**Share your
victory**

#ASUGrad #FultonGrad

I couldn't have made it here without all of your support. I am extremely grateful for all everyone has done for me. I'll love you always.

Andrew Thomas Kaye



While ASU has been my home for the past 5 years, I am excited to spread my wings and apply the knowledge I've gained toward accomplishing my dreams.

Brandon Patrick Keeber



Four years of great faculty, great friends, and finding great knowledge. Thank you ASU!

Ryan Dustin Keeney



Thank you to my family for their continued support! I would not be here today without it. I am extremely grateful for the opportunities I've had.

Sean Andrew Kelso



***Thank you to my family for
giving me this amazing college
experience I love you all, FORK
'EM!!***

Andrea Monique Kemmerrer



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Stay connected

Dad, Mom, and Sissy, thank you so much for supporting my dreams and always being on call during midterms and finals! I love you so much! GO BLUE!

Kayla Vaosa Kilgore



Thank you to my family for everything. I truly couldn't have done it without you. Life is beautiful. I love you!

Julia Ann King



To my family. Thank you for all of the support, I could not have made it here without you!

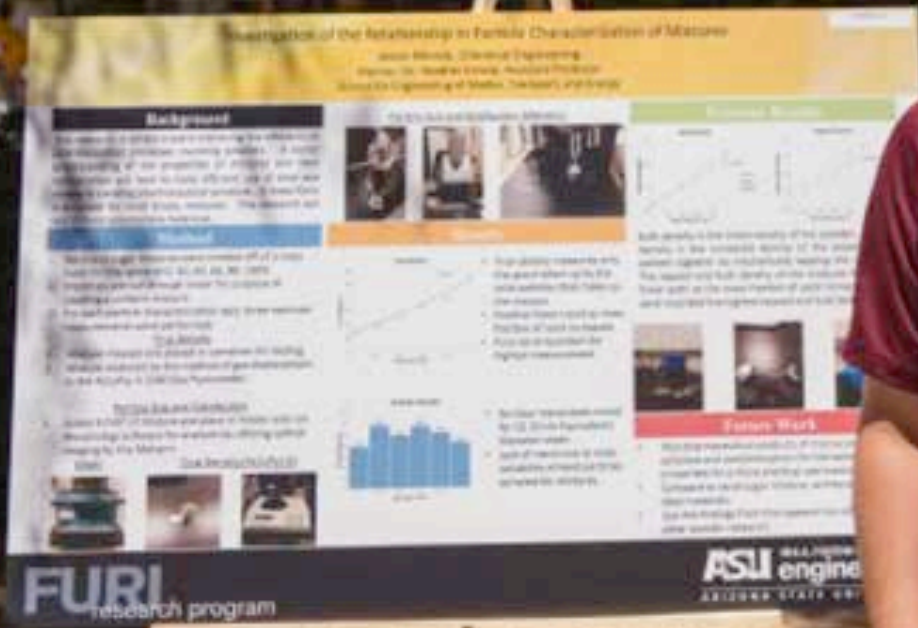
Jeffrey Jordan Kirkman



*Thank you to everyone who
helped me get here today. You
know who you are.*

Nathan Kirkpatrick





A very special thanks to all my friends, family, and professors for helping me have the best college experience I could ask for. Also, I love you mom.

Jesse Klein



Thank you to my family and friends for supporting me while working on my degree. I couldn't have done it without you.

William Jeffrey Klemaszewski



*Thank you all for this wonderful
experience :D*

Rohan Kota



This journey has made me realise that its not what I have in my life, but who I have in my life that counts. Thank you family and friends.

Devika Krishnamurthy





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I am incredibly grateful for everyone who has had an impact on my life and allowed me to get where I am today. Thank you!

Wesley Thomas Kudela



I owe my success to my helpful & supportive friends and family like you. Thank you for adding to the joyful spirit of my graduation with your presence

Nikhil Kulkarni



Home away from home that taught us to respond better to challenges in the world and build our own professional identity.

Ravin Jay Kumar



Amma&Naana, Nothing wouldn't have been possible if not for your sacrifices. You both are the winners. Thank you friends,CIS, Project Humanities &ASU.

Yashwanth Nanda Kumar





@fultonengineering

Stay connected

Thank you to my parents, Matt and Paula, my girlfriend, Danika, and all of my amazing friends. I couldn't have done it without all of you.

Alexander Matthew Kyriakos



*Thank you so much to my
parents! I truly would not be here
without you and your support. I
love you!*

Justin Landstrom



***Thank You McKell and Rowan for
all of your support!!!***

Shane Peter Larson

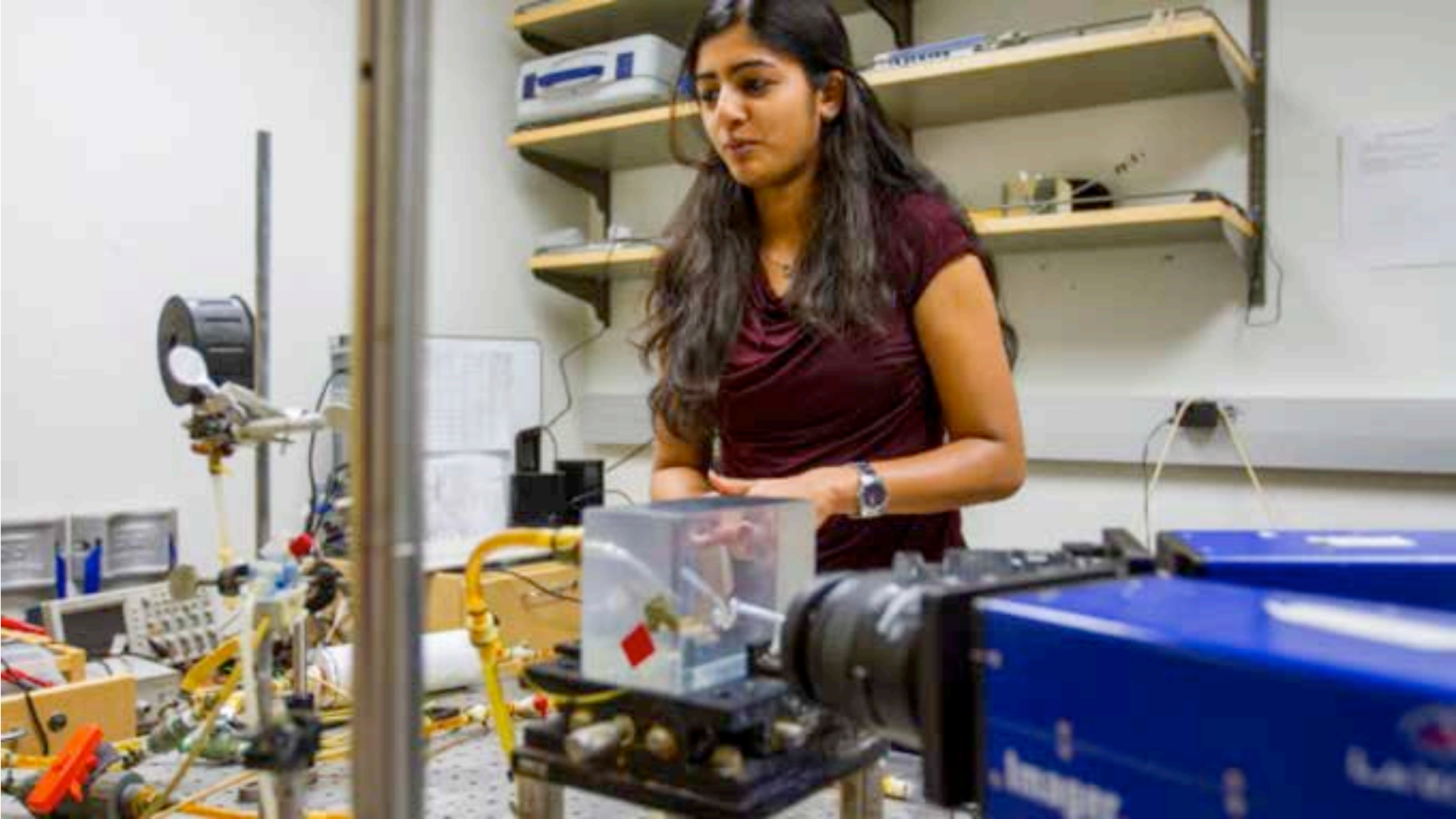


***Thanks to the best parents a kid
could ever ask for!***

-Portia, your Favorite child ;-)

Portia Anastasia Letham





*Thanks to Seth Levine, Sydney Taylor and Wei Wei for giving me great help in my two years study.
-Sheng Li*

Sheng Li



150 characters is not enough to express how grateful I am for my family, friends, coffee, and these past four years. #loveyouall #didmydiligence

Michelle Helen Lipowicz



***A big thank you to my family,
friends and wonderful boyfriend
for all of the support!***

Shannon Dawn Lippincott



Congratulations



Class of 2016

I want to thank my family, my friends, and all the people who have supported me through this journey. I'm forever grateful!

Chao-Yuan Liu



***Thank you Mom and Dad! Love
you! Chen***

Chen Liu



Thanks my parents for giving me this opportunity to study here in ASU, thanks all my friends who have been there to support me. I love you all!!

Jialiang Liu



Glory be to God.

To my Aldaco family, thank you for always believing in me and supporting me during these years, I am forever grateful to you.

Jesus Aldaco Lopez



A group of graduates in maroon gowns and caps celebrating with their hands raised and diplomas. The graduates are smiling and making peace signs. Some are holding maroon diplomas with a gold seal. The background is slightly blurred, showing more graduates and a large 'f' logo in the top right corner.

Stay connected



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It is my greatest honor to get my master degree in ASU. For every one who supports me, I want to say thank you! Love you all!

Yanglong Lu



ASU experience changed my life and made me a better person. I truly appreciate everyone's help, especially the support from my family. Thank you, ASU!

Zheyu Luo



Mom, Dad, and Marcy. Thank you all for coming today. I'm sorry there aren't more free hats. On the bright side, I love you all! - Kris

Kristopher Joseph Mach



Muchas gracias a todos las personas que me apoyaron y me siguen apoyando hasta el dia de hoy. De todo corazon gracias y en especial a mi esposa y hijo

Roque Galaz Machado



Using a Bi-Exponential Model to Analyze T2-weighted MR Images of Cervical Spine

The University of Queensland

St. John's School of Medicine

Faculty of Health and Behavioural Sciences

Introduction

Cervical spine degeneration is a common condition that affects the neck and upper back. The degeneration of the intervertebral discs and the vertebral bodies leads to a decrease in the height of the discs and the narrowing of the intervertebral foramina. This can result in the compression of the spinal cord and the nerve roots, which can cause pain, numbness, and weakness in the arms and hands.

The objective of this study was to investigate the relationship between the T2-weighted MR signal intensity and the degree of cervical spine degeneration. The study included 100 patients with degenerative cervical spondylosis and 100 age-matched controls.

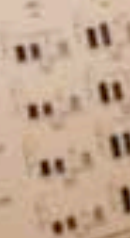
Background info

The study included 100 patients with degenerative cervical spondylosis and 100 age-matched controls. The patients were recruited from a tertiary care hospital and the controls were recruited from a community-based population. The study was approved by the local ethics committee.

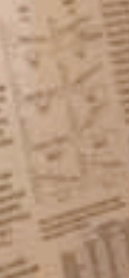
Conclusion

The study found a significant correlation between the T2-weighted MR signal intensity and the degree of cervical spine degeneration. The results suggest that the T2-weighted MR signal intensity can be used as a non-invasive method to assess the degree of cervical spine degeneration.

Results



The results of the study are shown in the following table. The table shows the mean T2-weighted MR signal intensity for each grade of degeneration. The signal intensity decreases as the grade of degeneration increases.



The results of the study are shown in the following table. The table shows the mean T2-weighted MR signal intensity for each grade of degeneration. The signal intensity decreases as the grade of degeneration increases.

Literature cited

1. Smith et al. (2010) Cervical spine degeneration: a review of the literature. *Spine*, 35(24), 2600-2610.

Acknowledgements

The authors would like to thank the following people for their assistance in the study: Dr. John Doe, Dr. Jane Smith, and Dr. Michael Brown.



Thanks for all the love and support you've given me through the years!

Cole Macias



I would like to give my sincerest thanks to my family, I would not be here if it weren't for you all. Thank you, I love you all.

Ryan Anton Madler



*Thank you, Mom and Dad, for
showing me what I am capable of.
Without your support, this would have
never been possible. I love you guys.*
-Gabster

Gabrielle Elise Maestas



Well, I finished. Thanks to my parents, Allie, Mark, and Lys for being alive and wonderful. Time for the next big adventure. Arrivederci, undergrad.

Cameron Mahai



A young man in a maroon graduation cap and gown with a yellow stole is smiling and waving his hand. He is wearing a white collared shirt and a dark tie. The background shows other graduates in similar attire, slightly out of focus.

Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

*Love you mom, dad and bro. Without
your love, support and sacrifice I
would have never made it this far....!
-Mahinder*

Mahinder Kumar Riant Malepati



*Thank you for pushing me to be
the best version of myself that I
can be.*

Aldin Malkoc



***Thank you Mom,Dad,Prats and Muns for all
the love and Support!!
This is for you!!***

***Love,
Aditya***

Aditya Mallampalle





Thank you Aanu and Amma for helping me get here! I Could not have made it here without your support!

Pramod Mallya



*Thank you, for being there
always!*

Manu Manmathan



***Thank you to everyone for their
support and encouragement!***

Sara Mary Mantlik



Thank you ASU for making me what I am today. The journey through ASU has been a life-changing experience and I can never forget that. Go Sundevils!!!

Shiva Mantravadi





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To my entire family, especially my mom, dad, and sister: This day was made possible because of you! I certainly wouldn't be here without any of you.

Colton James Marchesseault



Thanks to my children Cassandra, Xavier, and Noah for their patience and support. Thanks to my beautiful wife, Tracy, for her love and support.

Michael A. Marrs



*Thank you to my wonderful husband,
my parents, and my family for your
love and overwhelming support!
Thank you GOD for making my path
straight!*

Pamela Perez Martin



Thank you to my parents and family for all the support over the years!

Alexandro Xavier Martinez





@fultonengineering



Stay connected

Thank you for making these 4 years possible! Through thick and thin, you have been helpful, loving, and endlessly supportive!

Nicholas Marzec



Thank you Mom & Dad for always believing that I could be anything and anyone I wanted, and thank you Kyle for loving and supporting me no matter what.

Kristi Nicole Mass



*Thank You to my Beautiful Wife Lindsay!
For All Her Support And Love Through This
Journey. Love You Baby!!*

Thank You To My Mom And Dad, Love You!

Michael Scott Mathieu





**Don't forget
to write!**

fullcircle.asu.edu

**News for alumni
and friends**

You da best!

Mary Margaret McClure



I'd like to thank my parents, who have been so supportive, my sister, who shares in my ASU journey, and my girlfriend, the love of my life!

John Patrick McCrea



Hi.

Jason Robert Mende



*Special thanks to all the
Professors who made my
learning experience at ASU
wonderful.*

Govind Viswanath Menon





ASU THE FULTON SCHOOL OF ENGINEERING
ARIZONA STATE UNIVERSITY
CHEMICAL ENGINEERING

*Katie, Audrey, Noah, Claire, Oliver,
and all of my family: I Love You!
Thank you for your patience and
support throughout this entire
journey!*

Brandon Earl Merrill



*Thank you to my family and friends
that supported me every step of the
way to graduation. I couldn't have
done it with out you <3*

Christy Lee Mihealsick



*Special thanks to all of my friends
and family for helping me get to
this point! I could not have done it
without all of your support!*

Maxwell Stephen Milroy





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*Thank you Ma and Papa,
wouldn't be here without you
guys.*

Saurabh Mishra



I would like to thank my Parents for providing me with this life changing opportunity and my friends for helping me to overcome challenges.

Venkata Anveshan Reddy Modugula



*Thank you to my supportive
family and friends!*

Anna Marguerite Moe



A photograph of a graduate in a maroon cap and gown, wearing glasses, holding a large yellow balloon. Other graduates in similar attire are visible in the background, also holding balloons. The scene is festive and celebratory.

Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

*Love you Mom and Dad more
then anything, you guys are my
role models.*

Sadiq Abdulwahab Mohamed



"The Future Belongs to the Curious"

***Thank you for everything Mom, Rob,
Dad, and Aunt Brett!***

Nathan Allen Moore



Thank you Mom, Dad, and everyone else for supporting me along the way! It feels great to be done!

Andrew Thomas Morden





Our Team

- NAME: [unreadable] POSITION: [unreadable]
- NAME: [unreadable] POSITION: [unreadable]
- NAME: [unreadable] POSITION: [unreadable]



Our Design

Thank you for a bright future!

Matthew James Mortensen



***Mom and Dad,
Thank you for all your
unconditional love and support***

Mahkamehossadat Mostafavi



*...because you cared, helped,
encouraged, believed, laughed,
and loved.*

Laina Dean Moussallem



"There are no limits. There are only plateaus, you must not stay there, you must go beyond them." -Bruce Lee

Jesse Benjamin Munoz



@fultonengineering



Stay connected

- _ - it's a relief, thanks for the degree.

Thank You, ASU.

Venkata Nikhil Muppaneni



*A zillion thanks to my family! :)
Sharmitha Muralidharan*

Sharmitha Muralidharan



***Thank you for all the support and
guidance :)***

Nikitha Satya Murthy



*ASU thought me so many things
and I have learnt so much in the
last two years. Proud to be a
SunDevil !*

Raji Murty





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To my family: Your unyielding love and support has kept me strong through this long and exciting journey, in a place so far away from home!

Priya Nair



***Thank You to my AMAZING
Family!!!!***

Anbar Najam



Believe...

Vignesh Natarajan



Thank you Dad for making this possible !

Manish Nayini





*A heartfelt thanks to my family,
friends and professors for making
this journey a wonderful and
enriching experience. Proud to be a
Sun Devil!*

Tushar Negi



***To my family and friends. Thank
you for believing in me when I was
lost and did not believe in myself.
Chris Nguyen***

Chris Van Nguyen



***Thank You Mama and Papa
Nguyen! Forks Up!***

Kevin Nguyen



Cam On Ba Me, Cac Em, va Kim

Khoa Anh Nguyen





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Stay connected

Thank you to my mom for always being there when I needed her. Shout outs to my amazing friends and family who supported me through this journey.

Tony Tam Nguyen



Thanks my dad and mom and brother who have been supporting all the time. Thanks my whole family for motivating me. And thanks to all my friends

Duy Thanh Nguyen-Phan



*Thank you to my friends and family
for always being supportive of
everything I do and pushing me to
be the best I could be.*

Alexander Wayne Niebroski



Victor, Hector, Mama, Papa, I cannot explain how much you have taught me throughout my life. This accomplishment is for all of you. Los quiero.

Nestor Obeso



A group of people, mostly seen from behind, are wearing bright yellow t-shirts. They are holding up large, maroon and gold hand puppets that feature the ASU logo. One person on the right is holding up a yellow flag with the ASU logo. The background shows a large indoor arena with basketball jerseys hanging from the ceiling and a large screen displaying a group of people. The overall atmosphere is one of celebration and support.

**Share your
victory**

#ASUGrad #FultonGrad

***To the Oldmixon Clan and all of
my friends: I love you all!
Couldn't have done it without
you!***

Daniel Donald Oldmixon



Thank you to all my family and friends for their support. It's finally time for me to begin my own journey.

Ryan Patrick Oliver



Thank you Mom, Dad and Teri. I couldn't have made it through without you.

To my friends: I am finally an educated college graduate. Seriously guys.

Bryan Keith Orman





*Thank you so much for coming
here and supporting me! Go
Devils and Go Navy!*

Christopher Stephen Orourke



To Aidan, Cara, and Zoe - I love you guys! No more pencils, no more books, no more teacher's dirty looks! Mom did it!!

Laura Ostering



Por mi familia y por los 43

Luz Imelda Pacheco



ASU transformed an ordinary engineer to an entrepreneur and helped raised 600,000\$ to establish a medical company. A Dream come true! Dad & mom _^_

Sivakumar Palaniswamy



A group of graduates in maroon gowns and caps, smiling and holding diplomas. The graduates are in the foreground, with some making peace signs. The background is dark, suggesting an indoor ceremony.

Congratulations

Class of 2016

This has been a journey that has taken time and dedication. The amount of love I have for my family and their support can not be expressed with words.

Nicolas Alexandros Paredes



Hello ! Yayy I am graduating! A very big thank you for being a part of my Masters journey! And for being here today to share my happiness with me! :)

Manaswini Venkata Satya Parimi



Thank you for every bit of love and support that you have given me while expecting nothing in return these past four years.

To my Parrotts and friends


Haley England Parrott



Dad, don't cry.

Bradley Colton Allen Patchen

“”

A group of graduates in maroon and gold gowns celebrating with their hands raised. The graduates are smiling and making peace signs. Some are holding maroon diplomas. The background is slightly blurred, showing more graduates and the setting of a graduation ceremony.

Stay connected



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I express my gratitude to ASU by providing me a robust platform to develop and enrich necessary technical and inter personnel skills for next level.

Jay Kirtikumar Patel



Thank you

Tejas Patil



*Thank you Mom & Dad, Grandma,
Aunts and Uncles! It has been a
fun and great experience, thank
you for being there for me.*

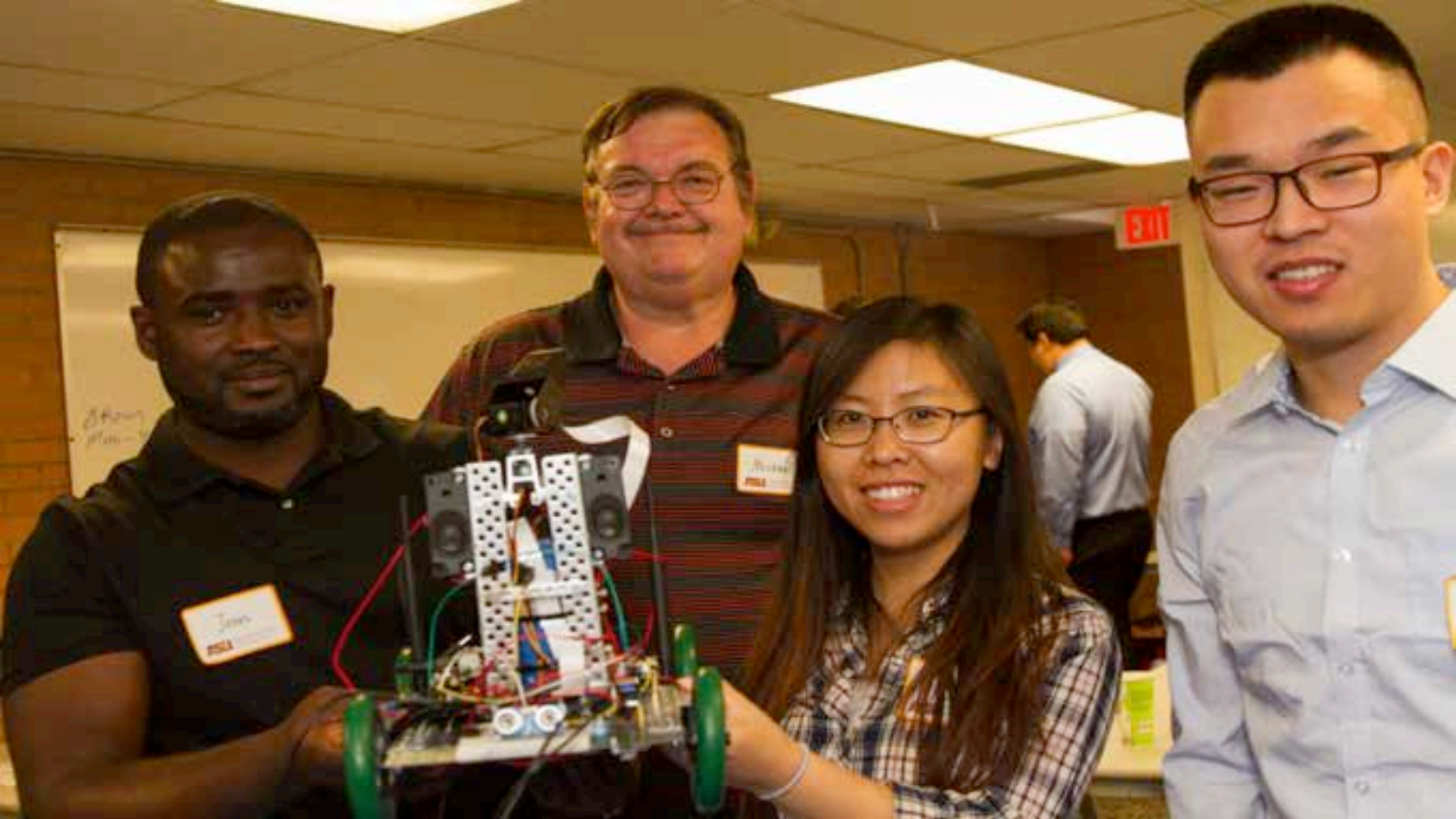
Zachary Allen Patterson



I want to thank my family for all of their support, and a special thanks to my girlfriend for always believing in me and pushing me to succeed.

Keith Merle Pearman





A huge thank you to the university, its members and all my friends for enabling this life changing experience. These have been my most defining years.

Phani Kiran Peddinti



Thank you to my awesome parents who have supported me through the wild ups and downs of my college career. I could not have done it without you!

Eric Perez



*Thank you to everyone who is here
to support me. It's time to celebrate!
On to new adventures! Love you
Mom, Dad, Kyle, and Siena.*

Mara B. Peterson



Graduation photos

A photograph of graduates at a ceremony. They are wearing maroon caps and gowns with orange stoles. The graduates are smiling and looking towards the right. The background is a large, blurred crowd of people.

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

*Thank you all for supporting me
as I became a hermit to
graduate!*

Francis John Petty



*Thank you to my loving parents
and sister for supporting me
through this endeavor and
journey of engineering school!*

Richard Dylan Phan



***Thank you everyone for your
help and wishes!***

Gaurav Baban Pokharkar



Thank you, Mom, Dad, and Jett for all of your constant support! I could not have gotten here without you. On to the next adventure!

Haylee Elena Poncy





MSA Engineering

Mechanical Engineering Capstone: Copper Lifting Machine

Problem Statement
Develop a reliable, cost-effective and safe way for PMM to increase the year 2020 from a loading speed and efficiently cost and show that it be accepted by a Turkish

Requirements and Constraints
Lift 20kg Copper Cans at 100mm/s. Cost from \$500 and power less

Validation Testing
Time
By
Spinning
How Timing

Conceptual Design
The best of 3 design ideas was chosen based on a 200-point matrix to this effect

Preliminary Design
Final Calculations
Guidance by Advisor
ASME Series & Thermal

Final Prototype

Awesome experience at ASU!!

Suhas Eswarappa Prameela



*Thank you my dear family for your
forever love and support & a special
thank you for my dear mom and dad
for your unconditional love & support!
Luv u!*

Srinivas Pramod



Thank you Mom and Dad for making the last four years possible. You're the best "Hero Support" a girl could have.

Breanna Lynn Pratt





Stay connected

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***It has been a long journey, but
we made it! Thank you all for the
support, bless up!***

Bryan Tongsavath Pravongviengkham



***Praise God for his unconditional love.
Thank you mom and dad for your
support. Thanks to family and friends.
Thank you ASU and faculty. Love you
all !***

Prem



For my parents, friends and all fellow sun devils, thank you for all the memories, love and support. Would not have been possible without you guys!

Varun Reddy Pulluru



A big thank you to my MSE family for supporting me in my 4 years! Even bigger THANK YOU to my wonderful, loving family!

Elizabeth Quigley





@fultonengineering

Stay connected

*Thank you Family and Friends for
your constant support and
motivation. "Keep your eyes on the
stars, and feet on the ground" - T.
Roosevelt*

Adrian Sebastian Quijada



I would like to thank all the wonderful people and the great friends I made over the years. Couldn't have made it without the support of everyone.

Jeffrey Aron Quinn



***Thank you ASU!!! For such a
fantastic experience and a
glance into the future :) :) Will
miss you!***

Vyshnavi Rajanala



GG WP. Commend me! :D

Thank you APPA and AMMA! :)

Dhiwaakar Rajasekaran





*I would like to thank my family
for giving me the opportunity and
resources to achieve my dreams.
Love you all.*

Madhuvanthani Rajendran



***Big Big thank you for all the love
and support you'll have given me
through the years.***

Pranith Ramesh



Mom and Dad, I am here because of you. Thanks for your incredible support. Love you.

Arshdeep Singh Randhawa



@fultonengineering



Stay connected

*My life just got more awesome.
Thanks to ASU*

Moogoondaraja RANGARAJAN



*Tatiana I wouldn't have been able
to finish this degree without you!
I love you!!!*

Joshua Del Rapiere



Thanks Moma and Daddy for the emotional and financial support you've given me over the past 4 years. I share this accomplishment with you!

Maile Ravenkamp



I thank my family and friends for the immense support they have given me throughout this journey. These last two years have been riveting.

Karthik Ravishankar



Thank you to everyone that continuously encouraged and inspired me. It was a great experience, but I'm glad it's finally done. Until round two begins.

Michael Gregory Reese



A photograph of a graduate in a maroon cap and gown with an orange stole, holding a large yellow balloon. He is wearing glasses and smiling. Other graduates in maroon gowns are visible in the background, some also holding balloons. The scene is a graduation ceremony.

Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

*I am dedicating this degree to my
dear Appamma and Ravi !*

Venkatraman Renganathan



*Personal thank you to 5-hour
energy shots.*

Jonus Michael Reyna



Thanks Mom! You're pretty chill for a mom. Also, Alexis, I guess you're pretty cool too.

Kameron Shey Rivera



BYE FELICIA

Felicia Navidad Romero





*Thank you to my friends, family,
and professors who made my
undergraduate experience
worthwhile :)*

Joseph Paul Del Rosario



***Thank you Anna, Mom and Dad
for all the love and support!***

Alexander Francis Routhier



A special shoutout to my wonderful wife Jessica who has been my motivation and to my newborn son Jack. and yes I made my awesome LED graduation cap.

Kevin Rowse



I thank my family so much for pushing me through school and setting me up for success.

Max Ruiz





@fultonengineering

Stay connected

All glory to my lord!!

Iswarya Varshini S



***Gracias Mama y Papa por darme
todo el amor y apoyo que he
necesitado para estar aqui hoy!!***

Daniel Sanchez



Thank you Mami, Papi, & Wendy. You have been my greatest inspiration and most constant support. Thank you for believing in me. I love you forever!

Jacqueline Lisette Sanchez





Stay connected

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ASU Grad school was the best decision I ever took. It was fun and I had the best memories. Now, I am a Sun Devil for life, "Quien me quita lo bailado"

Joaquin Santecchia



Thank you to all of my family and friends that supported me through my undergraduate degree. I couldn't have done it without you!

Nolan Edward Scharn



***Thanks for the love and support
of my family and Fork Em Devils!***

Joseph George Schmitz





Vodka



Today's
Special
Martini

DR

Thanks to my parents as my two biggest supporters in my pursuit for higher education.

Jacob S Sciacca



Just want to thank everyone who has supported me in this amazing journey. This accomplishment would not be possible without your contribution.

Brent Phillip Scott



Thank you, mom and dad, for always steering me in the right direction through life. I wouldn't be here without it. Love, Kegan

Kegan Scowen



Thank you to my loving family! I wouldn't have been able to get through these past four years without your endless support and words of encouragement!

Amanda Marie Seaney





**Don't forget
to write!**

fullcircle.asu.edu

**News for alumni
and friends**

***THANKS! Everyone who
supported me and gave me free
food :)***

Timothy Scott Seelig



It has been a life changing experience here at ASU. Thank you all for such a great experience.

Vignesh Seetharam



A huge thanks to my family and friends who supported me all the while! A Special thanks to my Research Group!
#SUNDEVIL_FOREVER!

Sethuraman Senthilnathan



A group of people, mostly seen from behind, are wearing bright yellow t-shirts. They are holding up large, maroon and gold hand-shaped foam fingers with the ASU logo on the palm. One person on the right is holding up a yellow flag with the ASU logo. The background shows a large indoor arena with basketball jerseys hanging from the ceiling and a scoreboard. The overall atmosphere is celebratory.

**Share your
victory**

#ASUGrad #FultonGrad

Every road ends. Only some of them leave us a better person. Thanks to everyone that traveled this road together with me.

Thurston Bryant Sexton



*Thank you mom, dad and my
little bro for your support
through all ups and downs I have
had. Love you all.*

Dhruvil Shah



Mom, Dad, Kipu: This one is for you! We are graduating :-)

Nishi Hitesh Shah



Thank You Ammy and Pappa.

Roshan Shaik





*Appreciation is given to my
amazing Sharma Family!!*

Ankush Sharma



*Thank you Alka & RP Sharma for
always supporting me and
making me who I am.*

Gaurav Rajpal Sharma



***Thank you ASU for the
memories!***

Karan Sharma



***It's been real, ASU. Now going
out to Rock the World!***

Parv Sharma





Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

Thank you, mom. I wouldn't be here without you.

"Behind every successful woman, is an amazing mother"!

Thanks to my family, friends and professors.

Sneha Madhav Shenoy



Thank you family and friends for encouraging me through this journey. Most of all Thank You Victoria for being my biggest cheerleader and best friend!

Jared Alexander Shipman



***Thank you Mummy, Papa and
Payal-Prianca***

Priyanka Rajshekhar Shivdare



*Thank you mom and dad for
everything you've done for me
and all your support.*

Dallas Dale Sigrist





Thank you to my friends and family for your constant support throughout the years. I couldn't have done it without you.

Drake Oliver Silbernagel



***Gracias Mami y Papi. Aveses fue
dificil tratar conmigo pero siempre
sabia que los tenia en las buenas y en
las malas. Los amo con todo mi
corazon!***

Sunshine Brianna Silvas



Thanks Fam!

Pahul Singh



To my parents and the rest of my family, I thank you all immensely for the support throughout my time at ASU. I am truly blessed.

Tanya Singh



A group of graduates in maroon and gold regalia and yellow hard hats. The graduates are smiling and posing for a photo. Some are wearing decorative flowers on their hard hats. The background is a large crowd of people, likely at a graduation ceremony.

Congratulations

Class of 2016

Id like to thank my family, especially my mom, for all support. I love you so much. I also thank God for the many blessings throughout my journey.

Joana Marie Sipe



Thank you to my friends and family for supporting me through all my endeavors!

Rachael Marie Slosky



Thank you Mom and Dad!

Alexander James Smith



*Love to all my family ... and to
Becky :)*

Stephen Andrew Smith



Thanks Fam, you rock!

Joshua Scott Snyder





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Stay connected

Thank you to my family for the support through school! Also, I'm sorry I crammed 11 cookies into the VCR..

Bryan Scott Sonneveldt



***Now our whole household is
engineering! Special thanks to
Papa and Goyo!***

Valerie Anne Spell



Thank you to all people that made my college journey possible. Thank you to all the people that helped and inspired me along the way.

Everett Reason Lowe Spence





Without the support of my loved ones, I would have never had the strength to complete this. Thank you- I love you!

Kaila Spiller



*Thank you all for everything you
have done to make this possible
and always supporting me. I love
you!*

Ryan K. Spiller



Thank you mom and dad for all the love and support! I miss you guys :) I will always be thankful and grateful to you for ur encouragement and support!

Keshav Kowshik Sreenath



***THANK YOU ASU FOR THE
WONDERFUL OPPORTUNITY TO
WORK FOR YOU!***

Sabareesh Sridhar





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Triumph in engineering is too bold for one person alone and I proudly share this triumph with my always supportive friends and family. Thank you!

Laycee Alexandra Stagmier



Thank you mommy!

Haylee Anne Stanger



I would like to thank my family for supporting me and helping me get through college. I really appreciate the opportunity you have given me.

Kyle James Stephenson



Carley- Thank you for holding us together though this journey, its your time now. DRAGONUS! THE KING WITH THE 5 POINTED CROWN WILL RISE IN JUNE!

Chad Andrew Stewart



A group of people, mostly seen from behind, are wearing bright yellow t-shirts. They are holding up large, maroon and gold hand puppets that feature the ASU logo. One person on the right is holding a yellow flag with the ASU logo. The background shows an arena setting with basketball jerseys hanging from the ceiling and a large screen displaying a group of people. The overall atmosphere is celebratory.

**Share your
victory**

#ASUGrad #FultonGrad

*Thank you to the most amazing
mom and dad in the whole world!
I could not have done this
without you both. I love you!*

Kelsey Jan Stopkey



Thank you Appa & Amma. I consider you both to be my most important mentors. Thank you so much for being such an incredible influence in my life.

Sai Krishnan Sundar Subramanian



"Go Devils!"

Srivatsan Nurani Subramanyam

“”

*I thank my parents and friends
for their support.*

Suraj Suri





*Thank you my lovely Sister,
Parents and my beautiful Wife.
This one is for you all.*

Ketul Sutaria



Thanks to our mums, Lisa and Sheela, who always had our backs and prayed real hard for us!

Swetha Swaminathan



***Thanks for launching me into my
new career! Love y'all! -CT***

Carolyn Rose Taconi





Stay connected



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My family has carried me through my college degree and I couldn't express how thankful I am.

Ramesh Tadayon



*To my family,
I know you couldn't attend this
ceremony...but I hope you are proud
of me today, as much as I am always
proud of you.*

Musab Mansour D Talal



This would not have been possible without the support of my Family, Thank You guys for everything! This one's for you!

Shiva Sai Gupta Tallapalli



@fultonengineering



Stay connected

Thanks to my parents for offering me the chance to finish my master degree at ASU. I love you!

Shan Tang



*Thank you, Daddy and Mommy,
for your encouragement and
love!*

Nathan Daniel Tappendorf



My journey at ASU has fulfilling and transforming. I would like to thank my family, sponsors and all faculty and friends who have been a part of it.

Gamuchirai Clinton Tavaziva



I'd like to thank my family for being so supportive in my education. Without them, I would not be graduating right now. I love you guys!

Jeffrey Merwin Tenney



A photograph of a graduate in a maroon cap and gown with an orange stole, holding a large yellow balloon. He is wearing glasses and looking towards the camera with a slight smile. In the background, other graduates in maroon gowns and caps are visible, some holding balloons. The scene is brightly lit, suggesting an indoor or well-lit outdoor graduation ceremony.

Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

I would like to thank my parents, family and all my dear friends for believing in me and providing their extensive support throughout this journey.

Akshara Dakshesh Thakore



***Thanks Mom and Dad, you are
the best!***

Brynn Elizabeth Thomas



*Mom, Dad, and Jessa -- thank you for
all of the support! Cleveland, here we
come!*

Love, Jonah

Jonah David Thomas



***Thanks go to the Thurman kids
and my mother for standing by
me these years -With all my love,
Lara***

Lara Natalie Thurman





Our Scaled Design

Correct temperature in all areas?

Control that temperature

Turn on fans and set dampers to direct airflow where needed.

Monitor temperature

Monitor temperature to control fans



Thom Caldwell
ASU

***Thank you Mom and Dad for all
you have given me. Love you
guys so much! :)***

Thomas Thyer



*Dear Mom and Dad, Thank you
for believing in me*

Naga Sowmya Tontepu



I want to thank my awesome family and freinds for their support of my pursuing a Chemical Engineering Degree. Their support is why I graduate today.ET

Eric Thomas Traichal



*Couldn't have done it without
your love, mom and dad.*

Diana Tran



A group of graduates in maroon and yellow gowns celebrating with their hands raised and diplomas. The graduates are smiling and making peace signs. Some are holding maroon diplomas with a gold seal. The background is slightly blurred, showing more graduates and a stage setting.

Stay connected



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*Graduating with my degree in
Biomedical Engineering would not
have been possible without my
friends, family, and coffee. Thank you!*

Jessica Lee Trevino



I would like to personally thank my family for pushing me forward to the top and my girlfriend, Faith for always being there for the support and drive

Ugurkan Tursun



I would like to thank my family and friends whose support, motivation and encouragement helped me complete my Master's and achieve this dream.

Preeti Vishwas Vaidya



Thank you for giving me the strength to stand up when I fell down and for reminding me that I deserve happiness.

Aimen Vanood





Coming to ASU was the best decision that I made. I have learnt so much and I am taking so many memories with me. Thank you mumma & daddy! I love you.

Divya Varun



*Special thanks to, Bryan Royle,
Cotton Marshmallow, Alex Kyriakos,
Emily Macmillan, Christy Mihealsick,
Rylan Tepper...ect. It was fun except
when...*

Joseph Daniel Vasquez



*I want to thank my parents and
my relatives for helping,
encouraging and supporting me
to GRADUATE....*

Hemanth Veeragandham



I would just like to thank all of my family for being here today, always believing in me, and supporting me throughout my time here at ASU.

Jacob Ryan Vehonsky



Congratulations



Class of 2016

Rishika Venka



***Thanks Sharada, Priyanka, Appa,
Amma, Priya, Devansh!***

Ramachandran Venkatasubramanian



Worked and studied alongside some of the most creative minds. Hope to carry the sun-devil pride in future.

Big Thanks to all the faculty members!

Adarsh Venkiteswaran





@fultonengineering

Stay connected

Gracias Tia Rossy and Tio Miguel for believing in me, trusting me and above all having faith in me through this journey here at ASU. Los quiero mucho.

William Vera



Thank you to all my friends and family for the love and support that made my journey at ASU possible.

Chase David Viland



I'd like to thank my family. They gave me support over literal oceans of water, and figurative oceans of homework.

I'm out of characters. DC Sweep!

Armand John Villani



Graduation photos

A photograph of graduates at a ceremony. They are wearing maroon caps and gowns with orange stoles. The graduates are smiling and looking towards the right. The background is a large, blurred crowd of people.

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

***Dear Family,
Thank you for all the unstinting
love and support you have given
me from back in India.***

Vishwas



***This one is for you mom & dad!
And for you. Thank you for
always being there.***

Deep Ketan Vora



***This one's for you Mummy
Pappa!***

Jash Samir Minal Vora



I started ASU expecting to get a degree and I left with a degree and a husband! Thanks Mom, Dad, Joe and friends for putting up with me :)

Jennifer Lynn Wagor





It's good to be here.

Osama Nasreldin Ahmed Wali



*Thank you to my family, friends & fiancée for your continued support. A special thank you to my dad for raising the engineer in me. Love,
Antoinette*

Antoinette Marie Walker



*"He says the best way out is
always through."
-Robert Frost*

James David Walworth





Stay connected

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Thanks for all the supports from my family. It have been a journey which can not be achieved without your sacrifice.

Ge Wang



*Thanks Tay & Brae for always
being there for me. Love you too
much! #GoHawks*

B Zach Washburn



***Thank you ASU! You let me
realize my dream!***

Peng Wei



***Mom and Dad, thank you for all
of your unconditional love and
support!***

Kyle Richard Westlake





**Don't forget
to write!**

fullcircle.asu.edu

**News for alumni
and friends**

Thank you to all my family for supporting and loving me through every step of my journey, and especially for your patience! :) -Chris W :)

Chris Wilkins



*Thank you for believing in me,
the real journey starts here and
now.*

Sean Michael Willett



*ASU was that friend that kinda
makes your life hell, but you
wouldn't have it any other way*

Justin Garrett Wilson



*Jayvin, Jazlynn, Ridge, Fox and
Hopper: Daddy Loves You!*

Nathan Ryan Woodworth



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Stay connected

***Thank you all my FAMILY and
FRIENDS for the unwavering
support and all your blessings!
Thanks for being with me ALWAYS!!***

Prasanthi Yelamarthy



Many thanks to all teachers who are dedicated to student success. Most thanks to my parents for helping me to understand the importance of education.

Aaron Bennett Zehe



*special thanks to Prof. Nongjian
Tao and Prof. Yanchao Zhang for
their general Help for my study.*

Jiejun Zhang



*Thanks parents Cunxiu Zhang and
Xiufang Guo for being my side.
Thanks Prof. George Pan for
guidance in study. Thanks all people I
met in ASU.*

Lisha Zhang





Graduation photos

[flickr.com/photos/fultonengineering](https://www.flickr.com/photos/fultonengineering)

***Thank you! My family and my
friends!***

Henghao Zhou



Sincerely appreciate for all your effort. You guys rocks!

Tianyu Zhu



*Thank you to my parents and to
the Flinn Foundation for making
my education possible.*

Jonathan Zia



Thank you to my family and friends who provided me the support I needed to get where I am today.

Matthew James Zukaitis





Congratulations

Class of 2016