



TECH

CLASS OF 2023



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Dear graduates,

On behalf of the faculty and staff of the Department of Electrical and Computer Engineering, I am thrilled to extend my heartfelt congratulations to each and every one of you on your graduation. You have successfully navigated college life, from late-night study sessions and challenging exams to the joys of new friendships and unforgettable experiences. Your hard work, dedication and perseverance have brought you to this momentous occasion, and I am incredibly proud of you all.



Michael Wu

Graduation marks a time of celebration, reflection and transition. It is a moment of joy and pride to celebrate the culmination of years of studying and pushing yourself to new heights. It is also a time to look back on all that you have accomplished and look forward to the exciting opportunities that await. As you embark on your next chapter, I offer some words of advice.

First and foremost, remember that the journey does not end here. Your degree is a testament to your knowledge, skills and dedication, and a key that unlocks countless doors for you to make a difference in people's lives.

Secondly, don't be afraid to take risks and keep pursuing your passions. Whether you choose to enter the workforce, further your education, or start a business, always remember that the only limit to what you can achieve is your own imagination.

Thirdly, stay connected with your alma mater. Our doors are always open, and we are here to support you and celebrate your successes. We would like to be a part of your journey as you continue to make a positive impact on the world.

Finally, I want to acknowledge the support you have received from your families, friends and loved ones throughout your academic journey. Their encouragement and love have undoubtedly played a significant role in your success, and I am sure they are equally proud of your accomplishments.

Congratulations again! You have earned this moment. I wish you all the best in your future endeavors and look forward to seeing all the amazing things you will accomplish in the years to come.

Bear Down!

Sincerely,



Michael Wu, PhD, FIEEE
Professor and Department Head
Electrical and Computer Engineering

The University of Arizona, Department of Electrical and Computer Engineering, P.O. Box 210104, Tucson, AZ 85721-0104
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Published for the Spring 2023 graduates of the University of Arizona Department of Electrical and Computer Engineering in the College of Engineering. Produced by Susan Novosel and UA Engineering Marketing and Communications.

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Outstanding ECE Students

Each semester, the College of Engineering honors outstanding students who are nominated by their professors and department heads.

Outstanding Senior
Elliot Zuercher



Outstanding Graduate Student
Lavanya Umapathy



Outstanding Student Achievement
Chris Bremser



Outstanding Graduate Teaching Assistants

Yuchao Liao



Milad Taghipour



Jiahao Tang



Awards for Excellent Performance at the Student Interface

The annual Student Interface Awards for Excellence honor ECE faculty, staff and teaching assistants who support our students by making them feel they are essential and valued members of the university community.

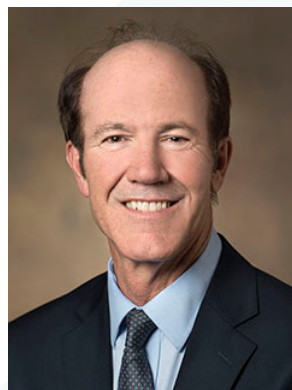
Outstanding Graduate Teaching Assistant
Maisha Hafiz



Outstanding Staff
Alexis Vasquez
Undergraduate Academic Advisor



Outstanding Faculty
Dale Hetherington
Professor of Practice



Outstanding Faculty
Hal S. Tharp
*Associate Department Head
Associate Professor*



ECE Engineering Ambassadors

Engineering Ambassadors share information about the College and their passion for Engineering – all from a student's perspective. They are chosen based on their outstanding academic performance, involvement in research and internships, leadership experiences, and enthusiasm for engineering and education.



Alex Hillman

Major(s): Electrical and Computer Engineering

Minor(s): Mathematics

Hometown: Blythe, California (Palo Verde High School)

Undergraduate highlights:

- Student Researcher under Dr. Adegbija
- Cochise Residence Hall Desk Assistant
- Physics II Preceptor
- Internship at Intel Corporation

Plans after graduation: Alex will be working in industry as a Design Engineer with Microchip Technology in Chandler, AZ.



Katherine Patterson

Major(s): Electrical and Computer Engineering

Minor(s): Mathematics

Hometown: Cave Creek, Arizona (Horizon High School)

Undergraduate Highlights:

- Blue Chip Leadership Member
- PACT Cybersecurity Researcher
- Greek Life
- Internship with Raytheon Missiles and Defense

Plans after graduation: Katherine plans on attending Colorado State University to pursue a Masters of Science in Computer Science.



Collin Preszler

Major(s): Electrical and Computer Engineering, Biomedical Engineering

Hometown: Peoria, Arizona (BASIS High School, Peoria)

Undergraduate highlights:

- Medical Device Club President
- Biomedical Engineering Society President
- Biomedical Undergraduate Mentor
- Tau Beta Pi Arizona Chapter Member
- Student Researcher under Dr. Elizabeth Hutchinson (MSBIL)
- Student Research under Dr. Gutruf (Gutruf Lab)
- Undergraduate Learning Assistant (ULA)

Plans after graduation: Collin plans to attend the University of Pittsburgh on track to obtain his PhD in Bioengineering with an emphasis on Neural Engineering.



Bianca Rodriguez

Major(s): Electrical and Computer Engineering

Minor(s): Mathematics

Hometown: Tucson, Arizona (University High School)

Undergraduate Highlights:

- Internship at Raytheon Technologies
- Tau Beta Pi Executive Vice President
- Society of Women Engineers (SWE) Member

Plans after graduation: Bianca will work in industry as a Computer Engineer with Raytheon Technologies in Tucson, AZ. Bianca hopes to pursue a Master of Science in Electrical and Computer Engineering and to work with Artificial Intelligence.

A

Ali H A S H Alaqeel
Haley Renee Alden
Jesus Arias

B

Ismael Gustavo Ballesteros
Nicolas Ethan Blanchard
Christopher William Bremser
Noah Talmage Butler

C

Gavin M. Caldwell
Thomas Michael Carroll
Yousuf Choudhary
Rahul Chowdhary
Elizabeth M. Connacher
Christian Copic
Nicolas Ramon Cornejo-Lopez
Riley Brennan Cowling
Konner A. Curtis

D

Isabel Mary Dailey

E

Ahmad Ashraf Eladawy
Gwendolyn Moira Etson

F

Garrett Austin Fenderson
Ruben Diego Fuentes Gutierrez
James Ryan Fulton

G

Kevin Dennis Gilman
Brian James Glaser
Keegan Daniel Godfrey
Roman P. Golota
Kevin Sean Grady
Sidhant Gulati
Nicholas Anthony Gullo

H

Carson James Hayes
Colin Mark Herbert
Alex J. Hillman
Kathryn T. Hoang
Kuang Ting Hsueh

J

Bryce Hayato Johnson
Quentin N. Johnson

K

Nafisul Huq Khondaker
Jacob Michael Klonsinski
Jerome Anthony Klosterman II
Jesse R. Koontz
Tony Franck Koulong Tanga
Casey J. Kozlowski

L

John Paul LaRue
Michael Salvatore Lauria

Shane Michael Lawler
Timmy Thanh Le
Raphael Lepercq
Yu-wei Liao
Alan Manuel Loreto Cornidez

M

Jia Cheng Ma
Son Tran Thien Mac
Lucca Ouriques Magalhaes
Guransh S. Mann
Salman Abdulsalam Marafie
Cameron Matsumoto
David Chibuikem Mazi
Megan Faith Mickey
Tyler Stephen Monlux

N

Aryaman Nath
Joy Niu

O

Sebastian Alexander Oviedo

P

Katherine Elizabeth Patterson

Aidan Mark Choe Petrie

Ethan Lance Potthoff

Ryan Michael Prather

Collin Alexander Preszler

Madeline Loveday Procter

R

Rusty D. Rinehart

Bianca Maria Rodriguez

Ashton B. Rowe

S

Cameron James Sexton

Timor Shahin

Nicholas J. Smith

Addison James Sterner

T

Efrain Abel Torres

W

Christopher T. Westerhoff

Jackson Wyatt Wood

Evan Wright

Z

Sheehab Mahdi Zaman

Zhehao Zhang

Elliot Zuercher



A

Reya Jijy Abraham
Murad Mehrab Abrar
Austin Joe Aloway
Tyler Averett
Michael E. Ayala

B

Jonathan Dalton Bensman
Trent Boice
Alexis Boone
Andrew B. Burns

C

Jared Paul Causey
Kaitlyn Christensen
Andrew Clark

D

Katherine Kaylene Daily
Debottama Das
Parker Dattilo
Brenda Dicochea

F

Alexander Fusco

G

Jonathan Gates
Eric Ellis Glynn
Anant Vitthal Gogates

H

Jonathan Gilbert Herrera
Chanel Hill

I

Raian Islam

J

Celyn Thomas Jacobs
Richelle Rose Igcasenza Javier
Kurt Joiner Jeikowski
Jeffin George Johnson
Kyle William Johnson

K

Stephen Patrick Keehan
Lewis William Koplun
Dusty J. Kuban

L

Allen Matthew Lafferty
Eric Marcos Lawson

Hwa Lee
De'Mauree Legaire Logan
Kyle Maurice Lowe
Harrison Lubbers

M

Tiffany Tinyee Ma
Matthew Martin
Karla Eloisa Montano
Diego Alejandro Montano
Diego Moscoso
Kevin Murray Jr.

N

Derek James Nielsen

P

Carl Yuta Peart
Charles C. Penny
Joaquin Eduardo Pesqueira
Teresa Thuytien Pham

R

Mohammad Wali-ur-Rahman
Nathaniel Rodriguez

S

Anthony Ignatius Schlecht

Christopher Schultze
Devin Tyler Shoults
John Siahaan
Micah Sieglaff
Ryan Paul Stancliffe
Kama Lauren Svoboda

T

Alyxandria Taila
Kevan Michael Tavasoli
Scott Thoesen
Jared Scott Turner

V

Andrea Celeste Villasenor

W

Qi Wen
Benjamin Carl Wichmann
Aaron T. Winkle
Tyler Ray Wong
Joshua Wu

Z

Eli Alexander Zervigon
Bradley M. Zimmermann

DOCTOR OF PHILOSOPHY DEGREE

G

Dhruv Mayur Gajaria

L

SeungHyun Lee

M

Mohammad Sadegh Majdi

R

Arash Roshanineshat

S

Shalaka Satam

U

Lavanya Umapathy

Z

Yiming Zhang

Ahmed Mahmoud Salama Ziane



The following degree recipients have shared their photos and personal statements.

BACHELOR OF SCIENCE

Christopher Bremser

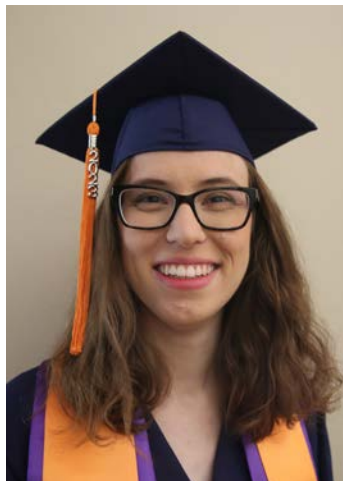


I have been a member of this college for 5 years. In that time my mother, father, friends, sister have all passed away and I have been kicked out of the college. I fought my way back, I created the ECE Discord and revived the IEEE Club again. This college has been the source of long days and stressful months. I have built a community around me that will forever follow me. Even through all the tragedy, every time life kicked me down I got

back up swinging. Thank you ECE Department.

Accepted a position with Apple Computers in Cupertino, CA.

Elizabeth Connacher



“Open your eyes and see what you can see with them before they close forever.” - All the Light We Cannot See

Accepted a position at Hydronalix in Green Valley, AZ.

Christian Copic



“Success is not final, failure is not fatal: it is the courage to continue that counts.” - Winston Churchill

Accepted a silicon engineering internship at Microsoft in Hillsboro, OR. Pursuing an MS degree in ECE at UArizona.

Riley Cowling



Pursuing an MS degree at UArizona.

Isabel Dailey



I'd like to thank my parents and sister for always supporting me in my academic and personal endeavors. Their continuing support has allowed me to truly “age phenomenally.” I wouldn't be who and where I am today without them! I'd also like to thank my friends for making me laugh every day and giving me some of the most memorable moments of my college years.

“I have aged phenomenally.”
- LEGO Batman

Working for NASA on the CCRS mission, Goddard Space Flight Center, Greenbelt, MD.

Garrett Fenderson

Accepted a position with Raytheon Technologies in Tucson.

Brian Glaser



“Do not be afraid. Do not be satisfied with mediocrity. Put out into the deep and let down your nets for a catch.”
- Pope John Paul II

Sidhant Gulati



“Nothing makes an Engineer more productive than the last minute.”

Pursuing an MS degree in ECE at Georgia Institute of Technology in Fall 2023.

Ruben Diego Fuentes Gutierrez



Accepted a hardware engineer position at Microsoft Corporation in Redmond, WA.

Colin Herbert



I am so grateful to have furthered my education here at the U of A. I want to thank all of my friends and family for their constant love and support through the ups and downs of college life. I have grown immensely as a person and in my faith, and I am ready to take on whatever comes next for me.

“I love this place” - Alec Bohm, 2022 Philadelphia Phillies

Accepted a position at Aerialsphere LLC in Phoenix.

Alex Hillman



“Reason is the slave of passion.” - Fyodor Dostoyevsky

Accepted a position at Microchip Technology in Chandler, AZ.

Kathryn Hoang



Thank you to my friends and family for all the love and endless support you have provided me these past four years. I am so grateful for the opportunity to learn and expand my knowledge. I could not have done it without you!

Accepted a position at Raytheon Technologies in Tucson.

Kuang Ting Hsueh



I am grateful for the opportunities, experiences, and support that have led me to this moment. Thank you to my family, friends, and teachers for their encouragement and guidance.

Quentin Johnson



I am a honors ECE student graduating with the Class of 2023. I am grateful for all the support my friends and family have given me over the years, and am confident that my experiences will allow me to go further.

Accepted a position at Raytheon Technologies in Tucson. Pursuing an MS degree in ECE at UArizona.

Tony Koulong Tanga



What a ride it was! I first want to thank the Lord Jesus for protecting me, leading me and always being there for me during these last 4 years. I am truly grateful for everything I have been through. I want to thank my mother for always being there by my side and encouraging me no matter what. I want to thank my late father for the wise words he had for my life and today I can say that I did it. I also want to thank all the rest of my family, friends and classmates for making this possible.

Planning to pursue an MSE/MBA in electrical engineering at ASU.

Tim Le

Accepted a position at Raytheon Technologies in Tucson.

Alan Loreto Cornidez



“Blessed is the one who finds wisdom, and the one who gets understanding, for the gain from her is better than gain from silver and her profit better than gold. She is more precious than jewels, and nothing you desire can compare with her. Long life is in her right hand; in her left hand are riches and honor. Her ways are ways of pleasantness, and all her paths are peace. She is a tree of life to those who lay hold of her; those who hold her fast are

called blessed.” - Proverbs 3: 13 - 18 (ESV)

Pursuing a graduate degree at UArizona.

Son Mac

My time at UArizona has been unforgettable. It feels like only yesterday that I walked around campus for the first time and now graduation is already here. After countless ups and downs, I'm grateful to have made it here and I want to express my appreciation to my loved ones and fellow engineering students who have accompanied me on this journey. I'm excited to see what the future holds. Bear Down!

“One step at a time is all it takes to get you there.” - Emily Dickinson

David Mazi



It's true what they say, you 'gotta let college pass through you as much as you pass through it. Also, you only have as much time as you let yourself have. You do have time to accomplish what you want. One more thing, no one is an island, socially and academically.

Aryaman Nath



A shoutout to the team at IEEE for getting me here. Chris, Rusty, David, Jeremy, and Calvin y'all are incredible people. Looking forward to seeing where everyone goes from here!

Accepted a position at Raytheon Technologies in Tucson.

Ethan Potthoff



“Quit, don't quit... Noodles, don't noodles... You are too concerned about what was and what will be. There is a saying: yesterday is history, tomorrow is a mystery, but today is a gift. That is why it is called the present.” - Master Oogway

Pursuing an MS degree in ECE at UArizona.

Ryan Prather



“Life moves pretty fast. If you don't stop and look around once in a while, you could miss it.” – Ferris Bueller

Accepted a position at Raytheon Technologies in Tucson.

Collin Preszler



Resistance is not futile. It's voltage divided by current.

Pursuing a PhD in bioengineering at the University of Pittsburgh.

Madeline Procter

Accepted a position at Raytheon Technologies in Tucson.

Rusty Rinehart



While my degree may only have my name on it, I have a whole team of support behind me that got me to this moment. Thank you to all my friends, family, professors and employers. I'd also like to give a special shoutout to Chris Bremser and the IEEE Student Branch. It took endless hours of work, but we successfully united the ECE college again after the pandemic with our Discord server and rebuilding IEEE!

Accepted a position at Intel Corporation in Austin, TX.

Bianca Rodriguez



I would like to thank my family and friends for supporting me through this amazing and enriching journey. I am proud to say I will be working at Raytheon as an official computer engineer! Si Se Puede!

Accepted a position at Raytheon Technologies in Tucson.

Ashton Rowe



Thanks to my friends and family who have supported me throughout the last 4 years; I wouldn't have made it without you. It's definitely been a challenge but I'm thankful for the experiences I've had and look forward to what the future will bring.

"What if changing the world was just about being here...if we stood our ground for long enough, just maybe the world can't help but change around us." - Elliot Alderson, Mr. Robot

Accepted a position with IOTA Engineering in Tucson.

Timor Shahin



I am very thankful to my family for supporting me all these years, and I am very thankful to all the friends and teachers I have met here for helping me achieve success and for making this journey a fun experience.

Nick Smith



Pursuing an MS degree at UArizona.

Zhehao Zhang



Thank you to my family, friends, and ECE faculty who have supported me for the past years!

Pursuing an MS degree in ECE at Johns Hopkins University.

Elliot Zuercher



I'd like to thank my mother for having the patience to home-school me ten years, my father for putting up with my math temper tantrums and inspiring me to become an engineer, my Pima professors who prepared me for university, my U of A professors who gave me the tools to pursue my interests and discipline my mind, and finally my amazing classmates who supported me through the long, hard evenings spent in the ECE building! It has been an

amazing and unforgettable journey.

Pursuing a graduate degree in electrical engineering at UArizona.

MASTER OF SCIENCE

Trent Boice



Thanks for all the support to my family. I couldn't have done it without you!

Accepted a position at Honeywell Aerospace in Clearwater, FL.

Alexander Fusco

Thesis Title: "Hardware-based Scheduler Design Methodology for Domain-Specific Systems-on-Chip"

Advisor: Dr. Ali Akoglu

Accepted a position at SpaceX in Redmond, WA.

Jonathan Herrera



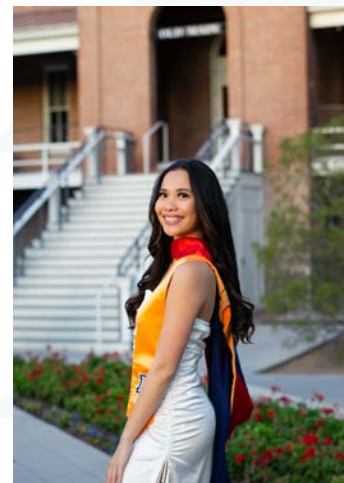
I am thankful for all my professors, friends, and family members who believed and encouraged me through this academic journey. Above all, I am forever grateful for my beautiful wife, Anabel. Without her unwavering support and love, I would not have been able to achieve this incredible milestone.

Currently working at Raytheon Technologies in Tucson.

Celyn Jacobs

Pursuing a graduate degree at Harvard University.

Richelle Javier



Thank you to everyone that has been a part of my journey throughout college. I am forever grateful for your support, love, friendship and guidance! A special thank you to my parents and family in the Philippines.

Accepted a position at Northrop Grumman in Redondo Beach, CA.

Diego Moscoso



"If everything you try works, you aren't trying hard enough." - Gordon Moore

Accepted a position at Meggitt Securaplane in Tucson, AZ.

Derek Nielsen



Thank you to everyone who has supported and motivated me on this journey!

Continuing my current position at Raytheon Technologies in Tucson.

Joaquin Pesqueira



I'm pretty tired, think I'll go home now. - Forrest Gump

Christopher Schultze



Continue working to develop skills and advance the state-of-the-art.

Aaron Winkle



Accepted a position at IBM in Tucson.

John Siahaan



I would like to first and foremost give thanks to our faithful God for this amazing opportunity. I give thanks to ECE faculty members and staffs, friends and family for your guidance, support and sacrifices. To my beautiful wife and handsome son, we missed many family time to make this happen and have a brighter future. I can relax a little and enjoy time with you again.

“Failures happen to two types of people. Those who plan

without doing. And those who do without planning.”
- Orang Batak

Continue working at Raytheon Technologies in Tucson.

Micah Sieglaff



Accepted a position with Caterpillar in Tucson.

DOCTOR OF PHILOSOPHY

Arash Roshanineshat



Dissertation title: “Developing a RF-System-on-Chip Signal Processing Backend for Radio Astronomy Applications”

Dissertation Director:
Dr. Dan Marrone

Accepted a position at Texas Instruments in Tucson.

Shalaka Satam



Dissertation title: “Autonomous Vehicle Security Framework (AVSF)”

Dissertation Director:
Dr. Salim Hariri

Accepted a position at Ford Motor Company in Dearborn, MI.



ECE MEMORIES

Some of the Class of 2023 graduates' favorite ECE memories.



Three titans of the 2022-23 IEEE. Left to right: Rusty Rinehart, ViceChair, Chris Bremser, Chair and Ary Nath, Treasurer. - Chris Bremser



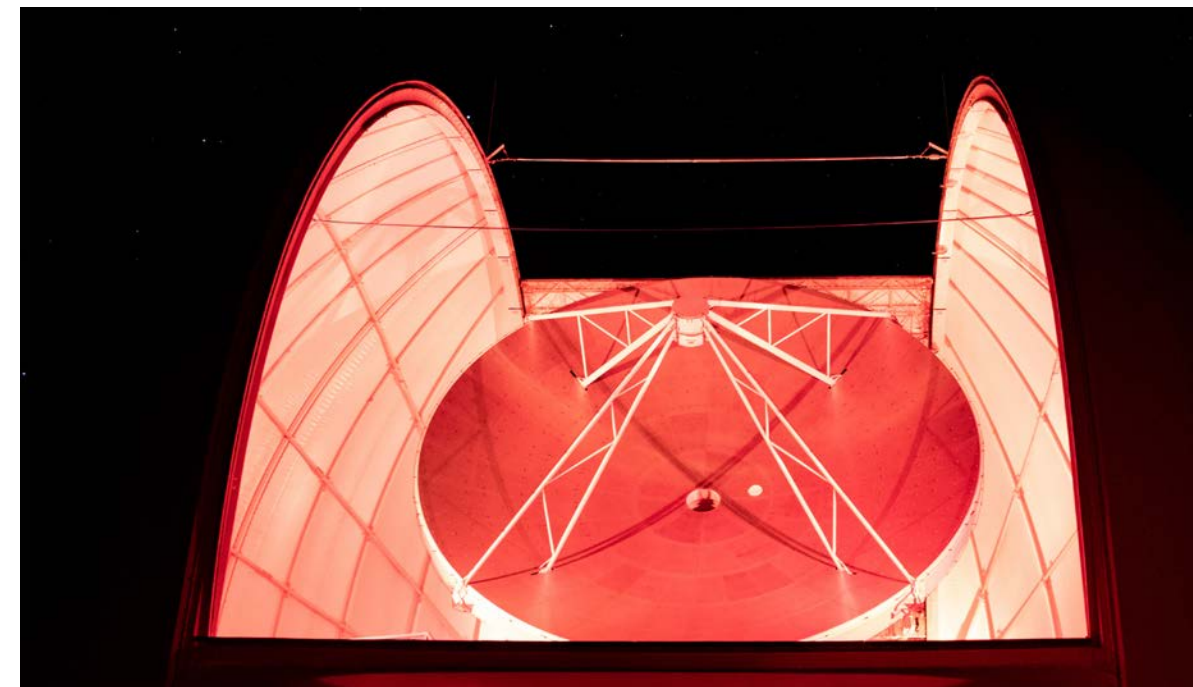
Lightning strike for Senior Design Project - Riley Cowling



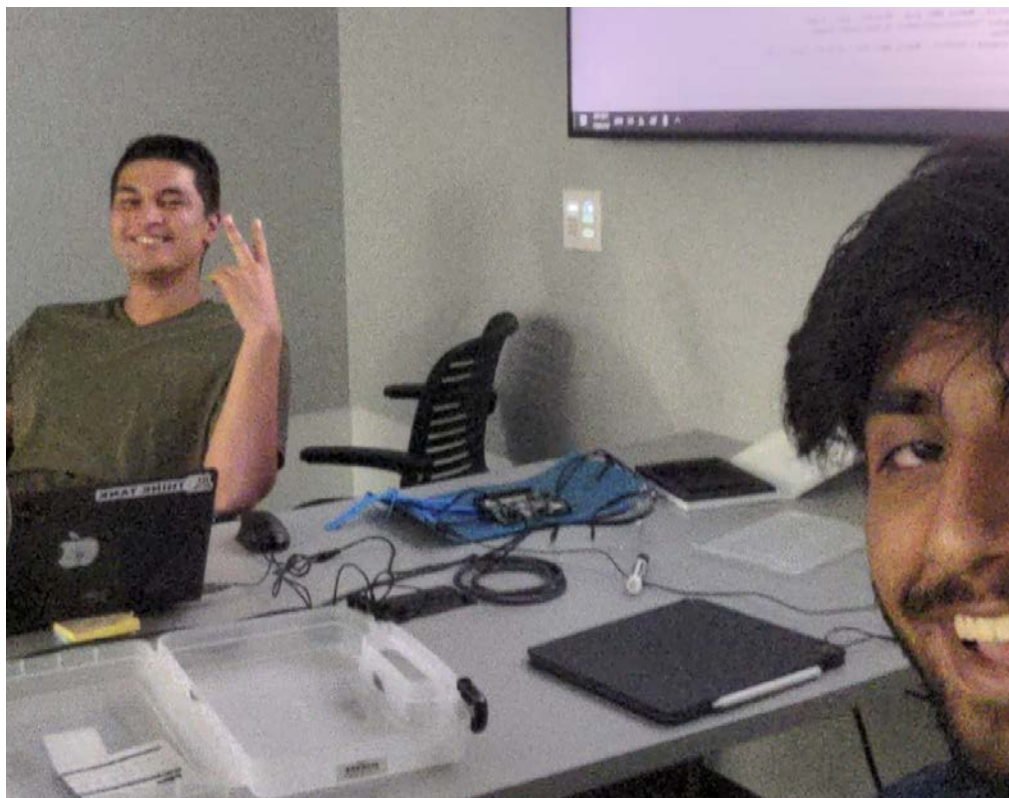
Freshman year, Solar Oven Throw Down - Kathryn Hoang



A good group of friends at Waffle House! - Isabel Dailey



12m radio telescope at Kitt Peak. I've spent many nights up there to setup hardware and observe for the Event Horizon Telescope project. - Arash Roshanineshat



The faces of students who haven't experienced ECE 369
- Alan Loreto Cornidez



The grind don't stop. - David Mazi



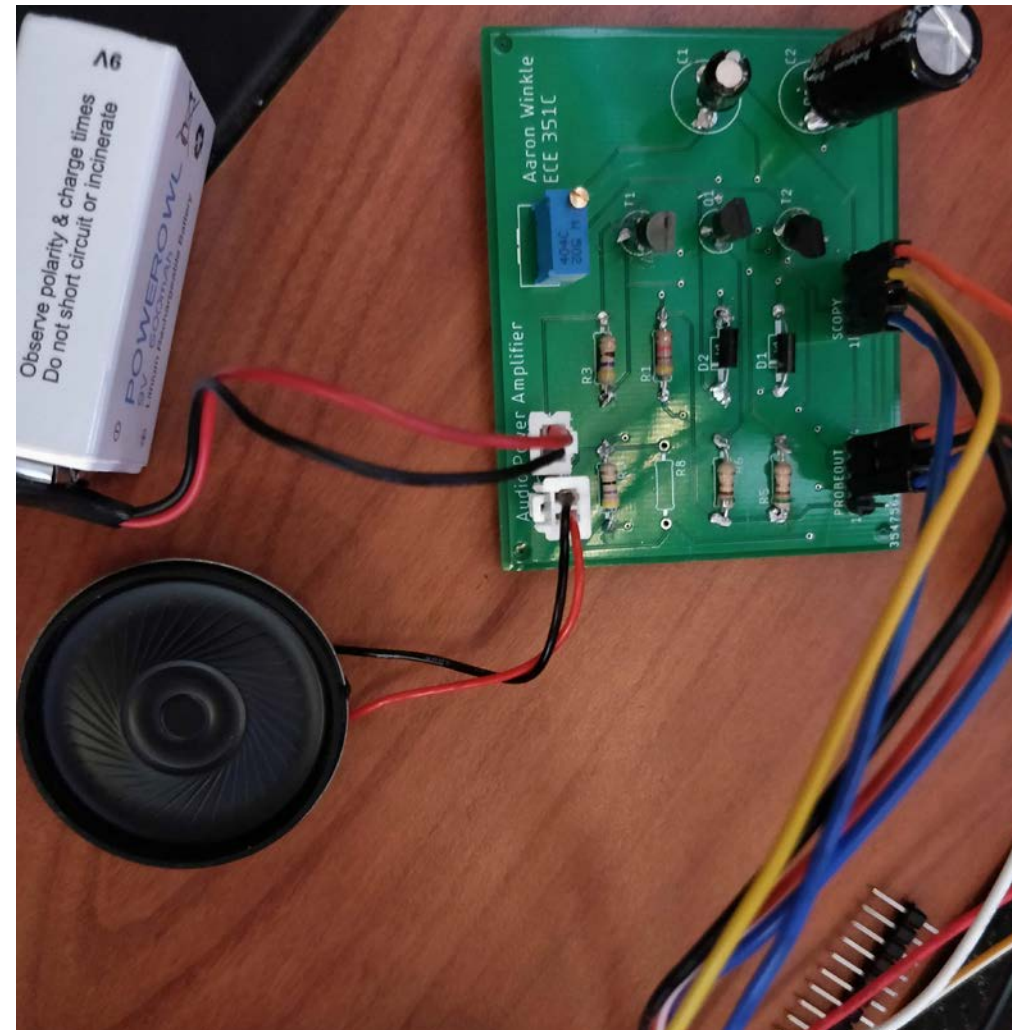
This was my senior design team's first of two autonomous 1/10 scale racecars built. I will always remember the joy of it powering up and eventually driving itself around our small track without crashing. - Ryan Prather



Theta Tau Professional Engineering Fraternity's Spring 2021 Pledge Class
- Ethan Potthoff



UA IEEE Student Branch at the 2023 Rising Stars Conference in Las Vegas, NV
- Rusty Rinehart



ECE 351 Audio Amplifier Circuit - Aaron Winkle



Congratulations Class of 2023! You have worked hard to achieve your goals and we are so proud of all you have accomplished!

- Kelly Simmons-Potter, Director of Graduate Studies and Professor



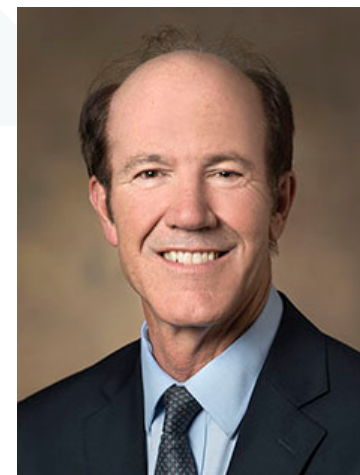
To all the graduating seniors, may your future be filled with unwavering connections, boundless opportunities, and the resilience to overcome any obstacles that you may encounter. I hope you will take charge of your destiny, stay true to your dreams, and always find the keys to happiness and success! Congratulations!

- Tosi Adegbiya, Associate Professor



Congratulations ECE Class of 2023! Your degree is a truly valuable accomplishment that represents all the hard work and dedication you have put in. I am proud of you and wish you all the best in your next adventure!

- Siyang Cao
Associate Professor



Congratulations on your outstanding achievement! We are very proud of you. Wishing you the best in your future endeavors!

- Dale Hetherington
Professor of Practice



Congratulations Class of 2023. We're proud of you.

- Marwan Krunz
Regents Professor



Congratulations and best wishes for the journey ahead!

- Michael W. Marcellin
Regents Professor



Heartfelt congratulations on your accomplishments. Be yourselves and follow your passions.

- Jerzy W. Rozenblit
University Distinguished Professor



Congratulations on your achievement. Best of Luck with your future endeavors.

- Kay Thamvichai
Professor of Practice

Happy Graduation!
Class of 2023


Congrats, ECE Class of 2023! It has been a true pleasure working with you. I'm so proud of all you guys have overcome to make it to this point. I'm so excited to be celebrating with you!

-Your ECE advisor,
Alexis Vasquez



CLASS OF 2023
Congratulations on earning your ECE degree. I am so happy for all of you!

Bear Down!
Your ECE Advisor
Tami Whelan




Congratulations on your achievements in 2023! It has been a pleasure working with you all – can't wait to hear about all you continue to accomplish from here!

- Keli Brinke, Administrative Support Specialist



Mohammad Abu Matar
Associate Professor of Practice
• software engineering • cloud computing • software architectural design



Siyang Cao
Associate Professor
radar signal processing • adaptive radar systems • innovative sensing systems



Salim Hariri
Professor
autonomic cybersecurity • big data analytics • resilient cloud services



Ming Li
Associate Professor
information security and privacy • wireless networking • cybersecurity



Tosiron Adegbija
Associate Professor
high-performance embedded computing • low-power embedded systems design



Ivan B. Djordjevic
Professor
optical communications and networks • quantum information processing



Gregory Heileman
Vice Provost for Undergraduate Education and Professor
data science • machine learning



Abhijit Mahalanobis
Associate Professor
imaging systems • machine vision and pattern recognition systems, infra-red and RF automatic target recognition



Ali Akoglu
Professor
high-performance computing • reconfigurable computing • adaptive hardware systems



Steven L. Dvorak
Professor
geophysical applications of electromagnetics • optics • applied mathematics



Dale Hetherington
Professor of Practice
electronic circuits • embedded microcontrollers • semiconductor processing



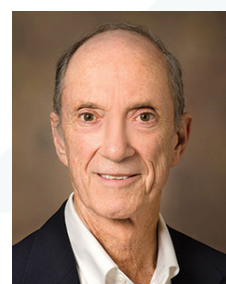
Michael W. Marcellin
Regents Professor and International Foundation for Telemetry Professor
digital communication and data storage systems • data compression • signal processing



Boulat Bash
Assistant Professor
information theory to practical problems of reliability and security



Wolfgang Fink
Edward & Maria Keonjian Endowed Chair and Associate Professor
artificial vision • autonomous robotic space exploration • biomedical sensors



Raymond Kostuk
Professor
optics • photonics



Michael M. Marefat
Associate Professor
intelligent systems • computer vision and robotics • machine learning



Ali Bilgin
Associate Professor
signal and image processing • data compression • magnetic resonance imaging



Liesl Folks
Senior Vice President for Academic Affairs and Provost and Professor
magnetic materials and devices • nanoscale metrology • spin-electronic devices



Marwan Krunz
Regents Professor and Kenneth Von Behren Endowed Professor
wireless networks • cognitive and software-defined radios • MIMO communications



Kathleen Melde
Associate Dean of Faculty Affairs and Inclusion, College of Engineering and Professor
antennas for computing • wildlife tracking • microwave circuit design



Tamal Bose
Professor
adaptive filtering • spectrum sensing • cognitive radios • channel equalization



Christos Gagatsos
Assistant Professor
quantum information and optics • probability theory and coding • applied mathematics • electromagnetism



Loukas Lazos
Professor
network security • algorithms • network optimization • wireless communications



Kelly Simmons-Potter
Professor
response of optical materials and devices to ionizing and non-ionizing radiation



Narayanan Rengaswamy
Assistant Professor

classical and quantum error correction •
quantum computing • information theory
• signal processing



Ratchaneekorn "Kay" Thamvichai
Professor of Practice

digital signal processing •
communications



Jeffrey J. Rodriguez
Associate Professor

signal-image-video processing and
analysis • automated image analysis



Hal S. Tharp
*Associate Department Head and
Associate Professor*

control theory • engineering education



Janet Meiling Roveda
Professor

smart grid and smart home • VLSI
systems for biomedical applications •
multicore design



Bane Vasić
Professor

digital communications • error correction
codes • memory and storage systems •
quantum error correction



Jerzy W. Rozenblit
University Distinguished Professor

design and analysis of complex systems
• modeling and computer simulation



Michael Wu
Department Head and Professor

cybersecurity • mobile computing
• wireless networks • computer
communications



Soheil Salehi
Assistant Professor

hardware and AI-enabled security •
signal conversion and processing • AI
hardware • computer architectures •
VLSI circuits



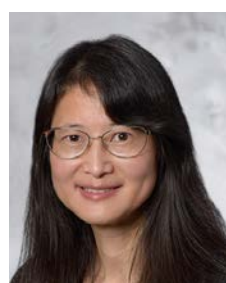
Hao Xin
Professor

microwave • millimeter-wave and THz
devices • circuits • antennas



Ravi Tandon
*Litton Industries John M. Leonis
Distinguished Associate Professor*

information and coding theory • wireless
communications • machine learning



Danella Zhao
Associate Professor

computer architecture • cybersecurity •
embedded system design





```
elif _operation == "MIRROR_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
elif _operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True
```

```
#selection at the end -add back the deselected mirror modifier
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active
#mirror_ob.select = 0
name = bpy.context.selected_objects[0]
obj.data.objects[name].select = 1
```

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