

ECE

Class of 2025





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Published for the Spring 2025 graduates of the University of Arizona Department of Electrical and Computer Engineering in the College of Engineering. Produced by Susan Novosel and the College of Engineering Marketing and Communications team.

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The University of Arizona is an equal opportunity employer. We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. The University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.

CONGRATULATIONS! YOU MADE IT.

Dear Graduates,

It is with great joy and pride that I extend my heartfelt congratulations to the outstanding Class of 2025 in the Department of Electrical and Computer Engineering!

Earning a degree in ECE is no small feat. Your path has been defined by late nights, challenging labs, innovative projects, and moments of discovery that stretched your thinking and shaped your future. You've shown determination, resilience, and a drive to master the technologies that power our modern world. Today, you stand ready to lead in an era defined by rapid innovation and global interconnectedness.

This year is especially momentous as we celebrate a new chapter in our department's legacy. In addition to our world-class program in ECE, we have successfully launched a new Computer Science and Engineering program and are proud to announce the integration of the Software Engineering program. As new alumni, you are now part of a dynamic and expanding academic family – one that spans the full spectrum of hardware, systems, AI, algorithms and software. Our collective strength across engineering disciplines will drive progress and transform industries throughout the tech landscape.

As you move forward – whether to industry, graduate school or entrepreneurship – I encourage you to remain curious, courageous and collaborative. The challenges ahead will demand not only your technical expertise but also your creativity, empathy and adaptability.

Don't forget to stay connected with your alma mater. We look forward to hearing about your achievements, and we welcome your continued engagement as mentors, partners and proud Wildcats.

To the graduates' families, friends, and supporters: Thank you for standing beside these remarkable scholars. Your encouragement made this milestone possible.

Congratulations again, Class of 2025! We can't wait to see the difference you'll make.

Bear Down!

Warm regards,



Michael Wu, PhD, FIEEE
Thomas R. Brown Leadership Chair and Department Head
Electrical and Computer Engineering
University of Arizona

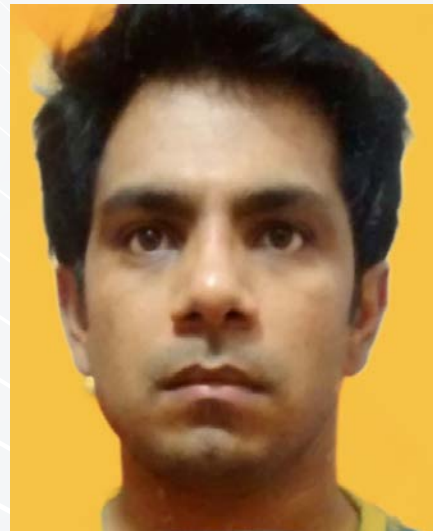


Outstanding ECE Students

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



Outstanding Undergraduate Senior
Tyler Wilson



Outstanding Graduate Student
Vijay Nafria



Outstanding Graduate Student
Noel Teku



Outstanding Graduate Teaching Assistant
Ashley Tittelbaugh



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.



Joshua Capel

Major: Electrical and Computer Engineering

Hometown: Gilbert, AZ

Years as EA: 3

Undergraduate highlights:

- Undergraduate Lab Assistant for the ECE Department
- Research experience
- Engineering Ambassador

Plans after graduation: Joshua has accepted a full-time position as a systems engineer at Textron Systems in Arizona.



Emma Halferty

Major: Electrical and Computer Engineering

Hometown: Bend, OR

Years as EA: 3

Undergraduate Highlights:

- SWE member
- Ski and Snowboarding Club
- The Hiking Club
- Engineering Ambassador

Plans after graduation: Emma has accepted a full-time position as a design engineer at Garmin in Tucson.



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

Oscar Lopez Fimbres



Outstanding Staff

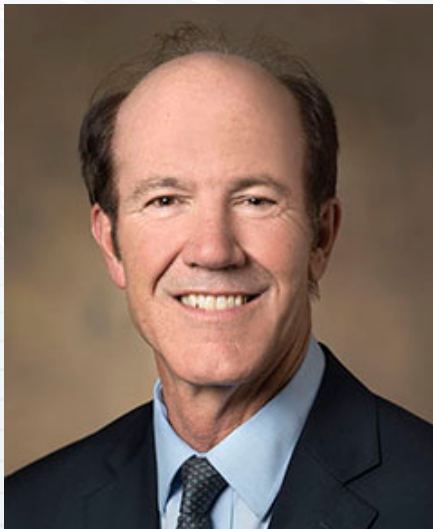
Alexis Vasquez

Undergraduate Academic Advisor



Outstanding Faculty
Dale Hetherington

Professor of Practice



Outstanding Faculty
Hal S. Tharp

Associate Department Head and Associate Professor





BACHELOR OF SCIENCE DEGREE

A

Ishan Adhikari
Ahmad Fahad AlKhezzi
Abdulwahab Mohammad
Al-Qenaei
Abdulaziz Alrandi
Rashed Altammar
Maria Sara Arvizu Velazquez

B

Cameron Alexander Balderrama
Ethan Wesley Burnett Nguyen

C

Juan Francisco Campista
Joshua A. Capel
Alex Caulin-Cardo
Alexander Charles Choi
Omar Corona Ramos

D

Brielle DeFrancesco
Jorge A. Del Rio
Enoch Zachariah Dew
Ashlee Sokha Diggles

E

Alicia A. Enriquez
Darwin Javier Escobar

F

Gao Fan
Brian Alberto Flores

G

Seven Mathew Gilbert

H

Aliah Morgan Haigh
Emma K. Halferty
Emma Grace Heckert
Alexa Hoover

J

Eli Jacobson

K

Joshua Connor Kimble
Derek Ethan Kropp

L

Alex Zong Liang

M

Ahmad Malik
Mason Davis Marrero
Dalian Meraz
Ali Abdulwahab Mohammad Ali

N

Wesley Michael Newman
Anh D. Nguyen
Thuan Minh Nguyen

P

Jimmy Edward Payan
Angel D. Perez
Vaidehi Pujary

Q

Alfani Quintero Rivera

R

Ryan Charles Raad
Jeffrey Christopher Richardson
Sebastian J. Robinson
Raymond Martinez Robles
Cole Ronald Rogers
Alejandro Romero-Lozano

S

Raul Alejandro Santos
Anthony John Saunders
Tej Ferron Scott
Andrew Michael Smith
Hannah Alexandra Spallas
Logan Stonehouse

T

Tyler R. Thursby
Robert A. Tkaczyk

W

Matthew Robert Wasko
Jake Andrew Weithas
David Parker Wigton
Tyler M. Wilson
Zachary Ethan Wollerman
Jhih-Yang Wu

Y

Ethan Matthew Yock





UNIVERSITY OF ARIZONA SAMPOERNA UNIVERSITY PROGRAM

A

Virginia Angel

B

Maya Anggun Beer

E

Joshua Matthew Eliasaputra

G

Kenjie Aaron Gozali

H

Muhamad Amin Hafidz
Paphavin Tris Hartono

N

Ahmad Nurfais

O

Bryan Orlando

P

Bryan Riconga Panjinata
Irfan Yuliana Putra

R

Altsa Hendranur Rahman
Widitra Nararya Rama

S

Matthew Nathaniel Sutanto
Nisrina Rahma Syaifullah

U

Axel Mahadriyana Ukar

V

Rohit Jathniel Vasandani

Y

Erwin Yonata



A

Adrian Aguilar Miranda
Raghad Saad Alabagi

B

Trevor Eugene Bailey
Kevin J. Barnett
Steven Beck
Ryann Buloe

C

Jaeden Wolf Carpenter
Brian Castellanos
Md Muhtasim Alam Chowdhury

D

Alexandra Kylie Daily

E

Luis Gerardo Estrada

F

Leah Paige Feltham

G

Harley Charles Gladysz
Jose Isaac Gongora

H

Timothy Daniel Haines
Malcolm Ulysses Hayes
Jason Crandler Heiman
Austin Joseph Hinton

J

Quentin N. Johnson

K

Adam Kenneth Kosinski
Steven J. Koyrakh

L

Jacob Mark Landsiedel
Oscar Jonathan Lopez Fimbres

M

Abiel Leon Barrion Marquez
Pavel Joseph Mazza
Gavin Scott Mitchell
Ashley A. Moshkriz

N

Nikhil Nair
Ameer Ghasem Nessaee

O

Julia Christine Otto

P

Kory Pearson

Aidan Mark Choe Petri

R

Jazael Ramos

Joshua Christian Reuter

S

Owen Sowatzke

T

Jimmy Tran

Stephanie Doris Tsang

U

Vijayapandian Unnikrishnan



DOCTOR OF PHILOSOPHY DEGREE

A

Sudarshan Adiga
Eze Ahanonu
Almutasim Billa Abdullah Alanazi
Ibrahim Almazyad

B

Kyle Robert Boyer

C

Ping Chang
Lei Cheng
Jude Larbi Kwesi Coompson

E

Safwan Ahmed Elmadani

F

Jesse Friedbaum*



G

Zhiwu Guo

L

Yuchao Liao

N

Vijay Nafria

T

Noel Hagos Teku

W

Stone Wilkes

**PhD, applied Mathematics*



CLASS OF 2025 REMARKS

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

BACHELOR OF SCIENCE

Maria Arvizu Velazquez



John 15:4 Hunter
Hunter E148 16:57-17:25

Omar Corona Ramos



"Sometimes it is the people no one can imagine anything of, who do the things no one can imagine." - Alan Turing

Pursuing a graduate degree.

Alex Caulin-Cardo



Pursuing an MS in ECE
at U of A.

Jorge Del Rio



"When something is important enough, you do it even if the odds are not in your favor." - Elon Musk

Pursuing an MS in ECE.



Enoch Dew



"Almighty God, who has created man in Thine own image, and made him a living soul that he might seek after Thee, and have dominion over Thy creatures, teach us to study the works of Thy hands, that we may subdue the earth to our use, and strengthen the reason for Thy service; so to receive Thy blessed Word, that we may believe on Him whom Thou has sent, to give us the knowledge of salvation and the remission of sins." - James Clerk Maxwell

Pursuing PCB design.

Dalian Meraz



"I'm grateful to have made so many friends with different interests and backgrounds during my time in college. They've helped broaden my view of the world in ways I never expected, from the movies I watch and the music I listen to, to the knowledge I've gained in subjects like math, science, and physics. I'm thankful to have surrounded myself with smart, inspiring people who have helped shape me into the person I am today."

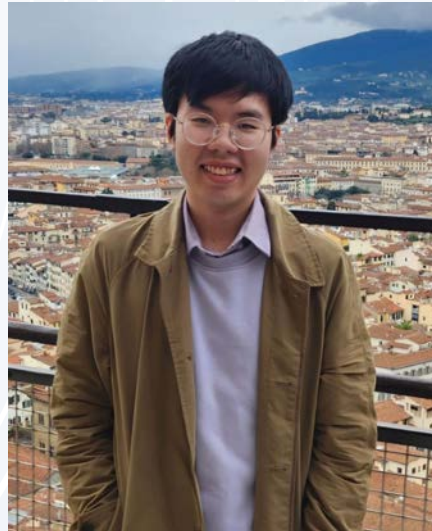
Emma Halferty



"Thank you to my friends and family for making these past four years possible. I would especially like to thank my parents for their endless love, support and encouragement. To my amazing brother and sister, and my three wonderful roommates - I couldn't have done it without any of you. Thank you, University of Arizona, for an amazing 4 years!"

Accepted a design engineer position at Garmin in Tucson.

Jack Nguyen



"Nobody ever figures out what life is all about, and it doesn't matter. Explore the world. Nearly everything is really interesting if you go into it deeply enough." - Richard Feynman

Pursuing an MS in ECE at U of A.



Alfani Quintero Rivera



"All our dreams can come true if we have the courage to pursue them" - Walt Disney

"I plan to work for a company that will allow me to work in sustainable power generation."

Sebastian Robinson



Accepted a position at Leonardo Electronics in Tucson and pursuing an MS degree in ECE.

Ryan Raad



Tyler Wilson



"A man who can laugh at himself is truly blessed, for he will never lack for amusement." -James Carlos Blake

"Engineering has always been a great source of joy for me and I am thankful for all of those who have enabled me to pursue my passion. I hope to continue bettering myself and my ability to help others find their

own success. And to everyone that knows me now, keep me humble. It is far too easy to insult others for where they are if you can't turn around and laugh at your past mistakes."





MASTER OF SCIENCE

Raghad Alabagi



“My success is only by Allah.” – Qur’an 11:88

“The ones who raised me, and the prayers we made — they brought me here.”

Accepted a product engineer position at Texas Instruments.

Quentin Johnson



“It’s the end of my journey as a student of the University of Arizona - I’m grateful for the support and successes I’ve experienced throughout the years. May the challenges dwindle and give way to a more hopeful tomorrow!”

Currently working full-time as an electrical engineer.

Md Muhtasim Alam Chowdhury



MS Thesis: Mitigating Device-Level Vulnerabilities in Post-CMOS Machine Learning Accelerators

Advisor: Soheil Salehi

“Make yourself comfortable with what makes you uncomfortable.” This advice, shared by a speaker at a seminar, became a personal mantra. It taught me how to turn my

weaknesses into strengths through perseverance and growth.

Originally from Bangladesh, I’m proud to have reached this milestone. I’m deeply grateful to my parents and my wife for their unwavering support. My father always dreamed of our happiness and I dedicate this degree to my parents, whose sacrifices made this journey possible.”

Pursuing a PhD at the U of A.

Steven Koyrakh



“Like the most finely tuned RF network, success is built on the combination of effort, curiosity, and perseverance. Every challenge in RF engineering—from taming nonlinear device behaviors to sculpting bandwidth-efficient filter responses—teaches us about science and ourselves. Through meticulous measurement, iterative design, and relentless

learning, I’m not just chasing better S-parameters and flatter response curves but forging the resilience and innovation that fuel every future project.”

Accepted a position as an RF engineer, building and pushing the boundary on next level technology.

Oscar Jonathan Lopez Fimbres



“Quiero agradecer a toda mi familia por su apoyo y amor incondicional. Hubo muchos sacrificios, no solo míos, sino de muchas personas, para que yo esté aquí hoy logrando esta meta. Llevo este logro con humildad, consciente de todo el esfuerzo que lo hizo posible.”

Accepted a position at RTX in Tucson.

Ashley Moshkriz

“Sometimes the questions are complicated and the answers are simple.”

Accepted an electrical engineer position at Freeport-McMoRan.



DOCTOR OF PHILOSOPHY

Sudarshan Adiga



Dissertation Title:
Detection and Decoding: New Learning-Based Algorithms and Their Fundamental Limits

Advisor: Ravi Tandon

“It is better to fail aiming high than to succeed aiming low, so that even failure will have in it an echo of glory.” - Bill Nicholson

Accepted a position at Marvell Semiconductor in Santa Clara, CA.

Ibrahim Almazyad



Dissertation Title:
Design, Analysis, and Evaluation of highly secure smart city infrastructures and services.

Advisor: Salim Hariri

“Forever grateful to the incredible staff and faculty at the University of Arizona for their unwavering support, guidance, and inspiration throughout my PhD journey. Your

dedication made this achievement possible. Proud to be a Wildcat! #BearDown”

Accepted a position at Qassim University, Saudi Arabia.

Almutasim Billa Alanazi



Dissertation Title:
Enhancing Safety and Efficiency for Control Systems Based on Reinforcement Learning

Advisor: Hal S. Tharp

“I am grateful to Allah for my success! Then I want to express my heartfelt thanks to my family—my wonderful father, Dr. Abdullah, and my mother, Fatimah, my lovely wife, Afnan, my supportive brothers

Mohammed and Fares, and my awesome sister, Abrar. I also want to thank my advisor, Dr. Hal Tharp, my committee members, Dr. Jerzy Rozenblit and Dr. Pratik Satam, and special thanks to my government, Saudi Arabia, for the scholarship and to U of A for an exceptional education.

Planning to become a university faculty member, pushing boundaries to innovate, transform, research, and create modern solutions to engineering challenges.

Lei Cheng



Dissertation title:
Perception with Sensor Fusion: From Calibration to Object Detection and Tracking

Advisor: Siyang Cao

“It’s strange—just when I feel that something is impossible or all hope is lost, a turning point always seems to appear. So, never give in to despair; nothing is ever truly impossible.”

Pursuing a postdoc at UMD, College Park, MD.

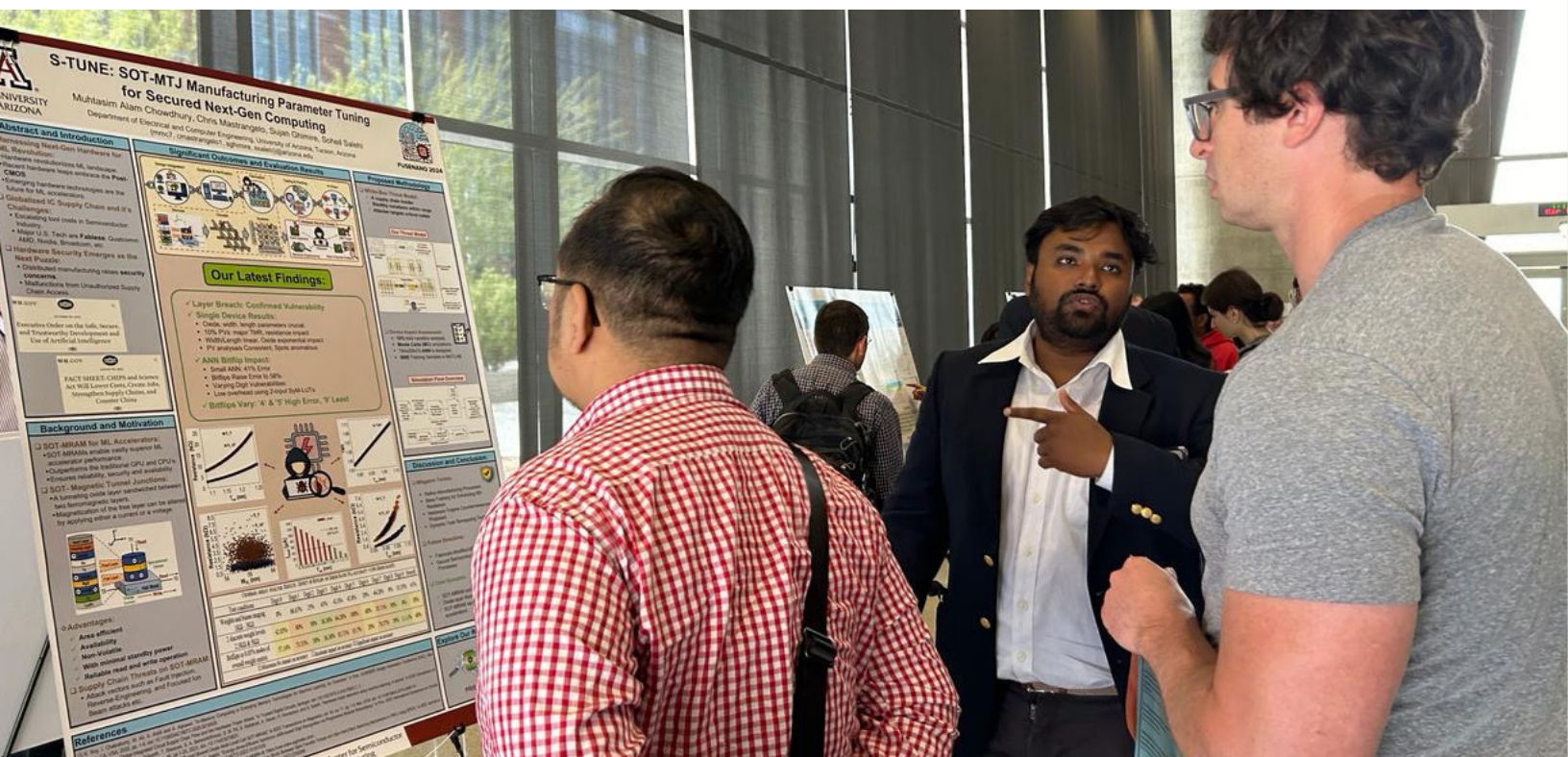


ECE MEMORIES

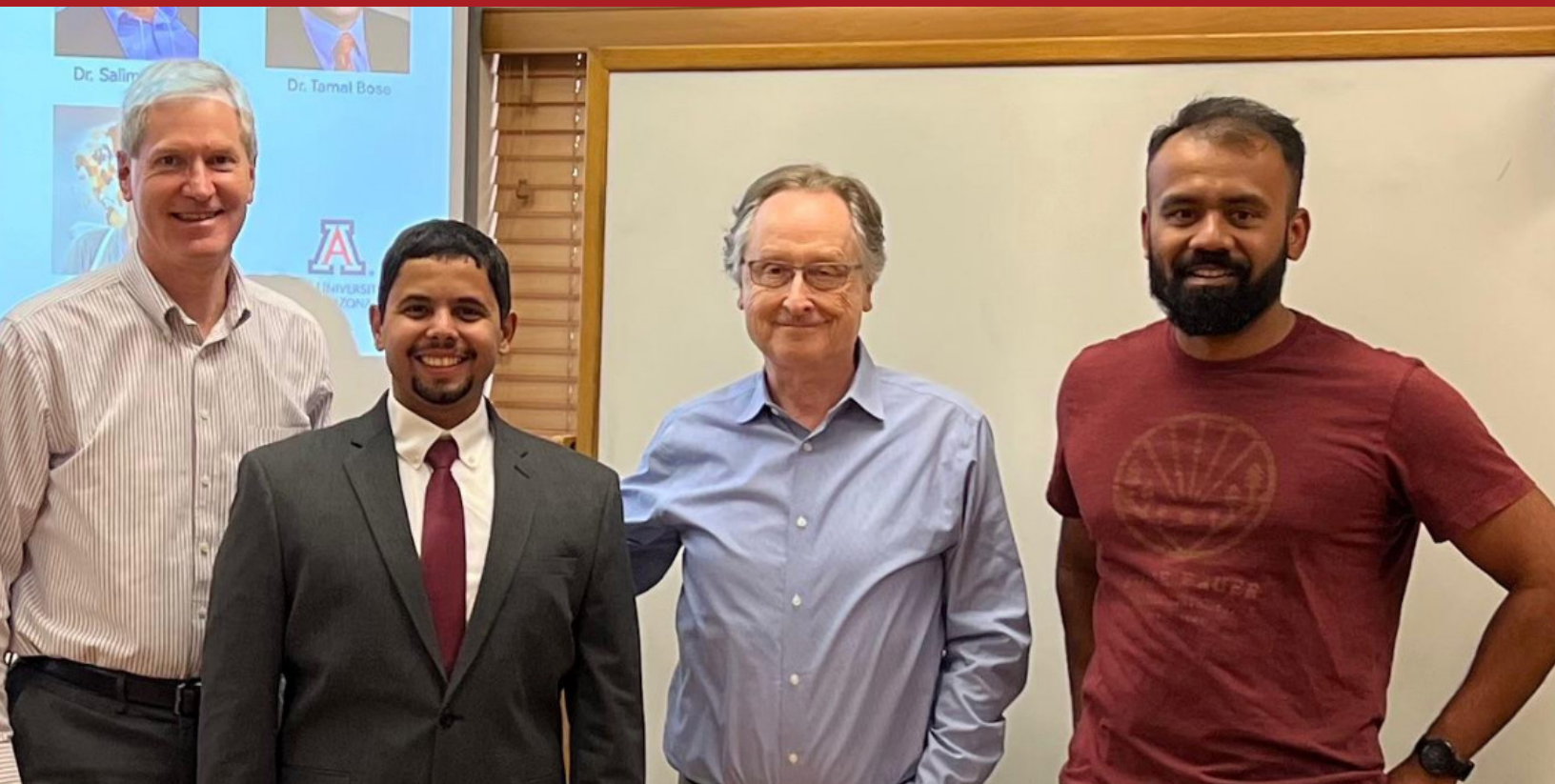
Some of the Class of 2025 graduates' favorite ECE memories.



Turning Up the Heat: Engineering Success in Pyrolysis Oil Refinement! — Alfani Quintero Rivera



Presenting my research on secure next-gen computing at the 2024 ECE Graduate Student Poster Symposium was an unforgettable moment of sharing ideas, connecting with peers and receiving the Best Poster Design Concept award.
— Md. Muhtasim Alam Chowdhury



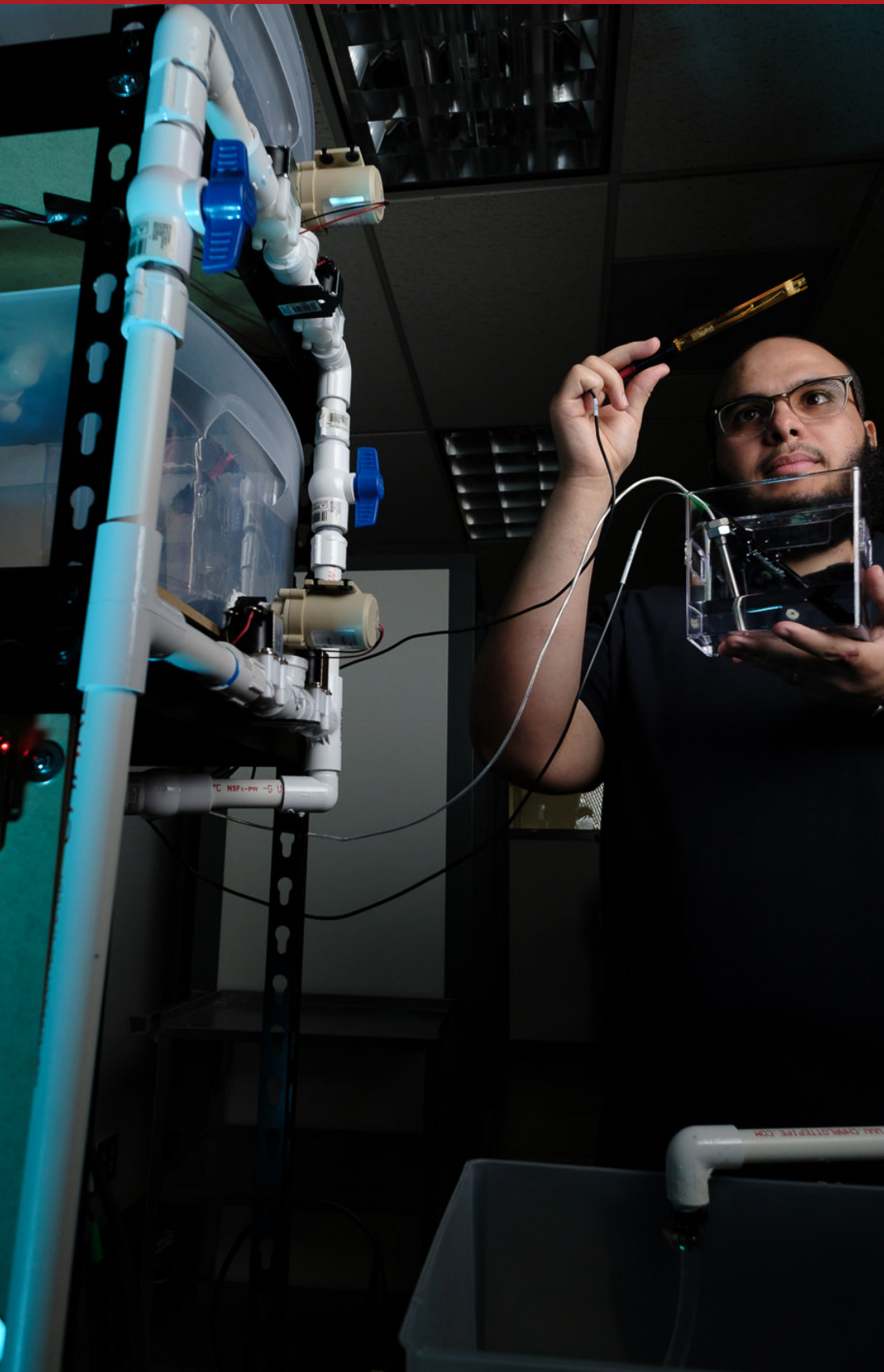
A memorable moment with my incredible Ph.D. committee after successfully passing my defense!
— Almutasim Billa Alanazi



Finishing my Senior design Piezo Array. — Dalian Meraz



Picture of Golf Putting Robot Senior Design Project
— Tyler Wilson



This photo captures a memorable chapter at the ACL Lab, where I spent countless hours developing cybersecurity solutions to protect our city's drinking water from cyberattacks. Building this highly specialized testbed challenged me, sharpened my skills, and taught me invaluable lessons about resilience and innovation. Forever grateful for this enriching experience and proud to contribute to safeguarding critical infrastructure! — Ibrahim Almazayad



— Alejandro



Romero-Lozan



Doing lab things. — Jorge Del Rio

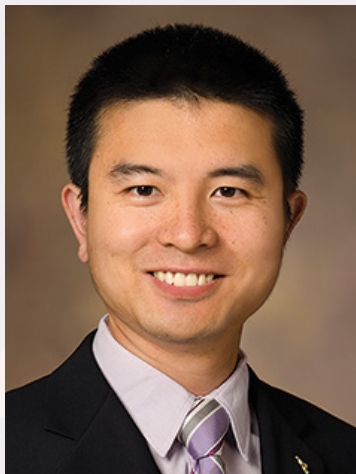
FACULTY AND STAFF REMARKS



Dr. Ehsan Azimi's XR class working on their hands-on projects using smart glasses.

You imagined it, built it, lived it. Now go extend your reality beyond the classroom!

— Ehsan Azimi
Assistant Professor



Congratulations on your graduation, class of 2025! I wish you the best in your future careers.

— Ming Li
Professor



Congratulations on your accomplishments at the U of A! Let the fun (of applying your skills in your workplace) begin.

— Narayanan Rengaswamy
Assistant Professor



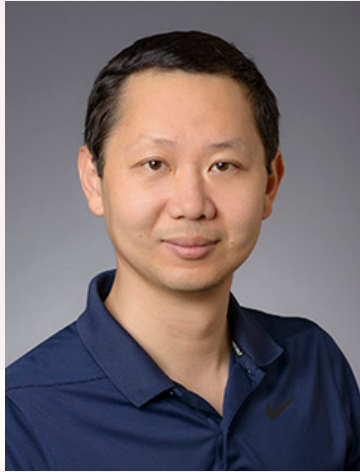
Congratulations Class of 2025! The future is yours to create so keep pushing boundaries, stay curious, and make a positive impact through your work.

— Soheil Salehi
Assistant Professor



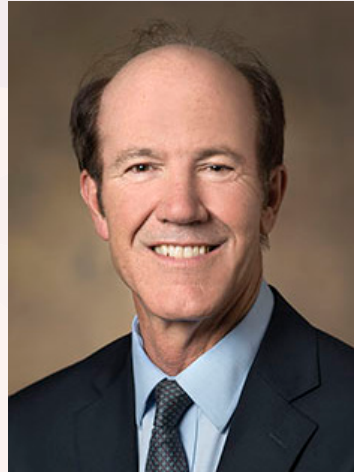
Congratulations Class of 2025. Best wishes for your future careers.

— Ratchaneekorn "Kay"
Thamvichai
Professor of Practice



Congratulations, ECE Class of 2025! I'm proud of your hard work and wish you all the best in your next chapter!

— 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



Best Wishes, Graduates.

— Kathleen Melde
Associate Dean of Faculty Affairs and Professor



Congratulations and good luck in your future endeavors!

— Michael W. Marcellin
Regents Professor



Heartfelt congratulations on your success and warm wishes for the next steps in your professional and personal journeys.

— Jerzy W. Rozenblit
University Distinguished Professor



Congratulations, UA ECE graduates! Wishing you all a successful future.

— Hal S. Tharp
Associate Department Head and Associate Professor




Congratulations Class of 2025! Your success in ECE is inspiring. Wishing you all the best. Bear down!

— Rozanne Canizales
Assistant to Department
Head and Administrative
Manager



CLASS OF 2025
Congratulations on earning your ECE degree. I am so happy for all of you!

Bear Down!
Your ECE Advisor
Tami Whelan

A portrait of a woman with brown hair and glasses, smiling. She is wearing a dark blue turtleneck sweater and a necklace with a large pendant.

So many wonderful student memories with you all! Best wishes for the future careers, Class of 2025.

— Jorge Camarillo
Graduate Academic Advisor



Congratulations Class of 2025! It has been a pleasure seeing you grow and progress towards achieving all your ECE goals. Wishing you continued success in your careers and on into the future!

— Keli Brinke
Administrative Associate

**CONGRATS!
CONGRATS!
CONGRATS!**

Cheers to the Class of 2025! You've turned late nights and big dreams into something real. The world is wide open—go chase it with everything you've got!

-Alexis Vasquez



Mai Abdel-Malek

Assistant Professor of Practice

logic design • embedded microcontroller
• programming languages • wireless
communication



Tosiron Adegbiya

*Director of Graduate Studies and
Associate Professor*

high-performance embedded computing
• low-power embedded systems design



Ali Akoglu

Professor

high-performance computing •
reconfigurable computing • adaptive
hardware systems



Ehsan Azimi

Assistant Professor

• extended reality • robotics • human-
centered design



Boulat Bash

Associate Professor

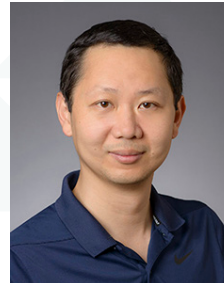
information theory to practical problems
of reliability and security



Ali Bilgin

Associate Professor

signal and image processing • data
compression • magnetic
resonance imaging



Siyang Cao

Associate Professor

radar signal processing • adaptive radar
systems • innovative sensing systems



Jyotikrishna Dass

Assistant Professor

distributed machine learning •
edge AI • systems architecture for
high-performance machine learning



Ivan B. Djordjevic

Professor

optical communications and networks •
quantum information processing



Wolfgang Fink

*Associate Professor and inaugural
Edward & Maria Keonjian Endowed
Chair*

artificial vision • autonomous robotic
space exploration • biomedical sensors



Liesl Folks

Professor

magnetic materials and devices •
nanoscale metrology • spin-electronic
devices



Christos Gagatsos

Assistant Professor

quantum information and optics •
probability theory and coding • applied
mathematics • electromagnetism



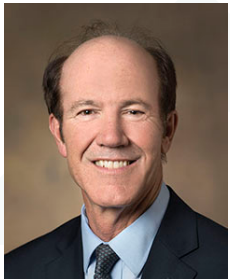
Salim Hariri
Professor

autonomic cybersecurity • big data analytics • resilient cloud services



Gregory Heileman
Vice Provost for Undergraduate Education and Professor

data science • machine learning



Dale Hetherington
Professor of Practice

electronic circuits • embedded microcontrollers • semiconductor processing



Marwan Krunz
Regents Professor and Kenneth Von Behren Endowed Professor

wireless networks • cognitive and software-defined radios • MIMO communications



Loukas Lazos
Professor

network security • algorithms • network optimization • wireless communications



Eung-Joo Lee
Assistant Professor

Computer vision • signal and image processing • medical image analysis • machine learning • deep learning • embedded systems



Ming Li
Professor

information security and privacy • wireless networking • cybersecurity



Bo Liu
Associate Professor

reinforcement learning and control • explainable AI • safe AI



Abhijit Mahalanobis
Associate Professor

imaging systems • machine vision and pattern recognition systems, infra-red and RF automatic target recognition



Michael W. Marcellin
Regents Professor and International Foundation for Telemetry Professor

digital communication and data storage systems • data compression • signal processing



Michael M. Marefat
Associate Professor

intelligent systems • computer vision and robotics • machine learning



Kathleen Melde
Associate Dean of Faculty Affairs and Professor

antennas for computing • wildlife tracking • microwave circuit design



Kelly Simmons-Potter

*Associate Dean of Academic Affairs,
College of Engineering and Professor*

response of optical materials and
devices to ionizing and non-ionizing
radiation



J. Ubaldo Quevedo

Professor of Practice

information retrieval • data management
• machine learning • computer
algorithms



Narayanan Rengaswamy

Assistant Professor

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



Jeffrey J. Rodriguez

*Director of ECE Online Programs
and Associate Professor*

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



Janet Meiling Roveda

Professor

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



Jerzy W. Rozenblit

University Distinguished Professor

design and analysis of complex systems
• modeling and computer simulation



Soheil Salehi

Assistant Professor

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



Ravi Tandon

*Litton Industries John M. Leonis
Distinguished Professor*

information and coding theory • wireless
communications • machine learning



**Ratchaneekorn "Kay"
Thamvichai**

Professor of Practice

digital signal processing •
communications



Hal S. Tharp

*Associate Department Head and
Associate Professor*

control theory • engineering education



Bane Vasić

Professor

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



Michael Wu

*Thomas R. Brown Leadership Chair,
Department Head and Professor*

cybersecurity • mobile computing
• wireless networks • computer
communications



Hao Xin
Professor

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



Huanrui Yang
Assistant Professor

machine learning • artificial intelligence
• computer organization



Han Xu
Assistant Professor

machine learning • artificial intelligence •
robustness • privacy • fairness



Danella Zhao
Associate Professor

computer architecture • cybersecurity •
embedded system design









ece.engineering.arizona.edu

