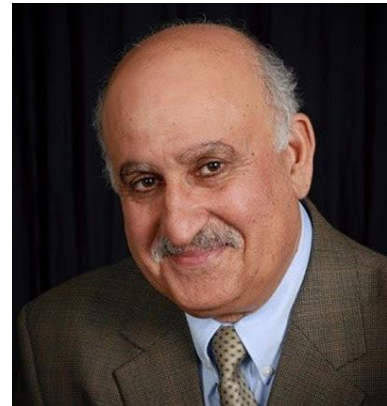


## Department of Electrical and Computer Engineering

What a year it has been. We learned just how crucial technology is to our lives—to keep us healthy, to keep us connected, and to keep us learning. Artificial intelligence was at the core of those technologies that erupted during the COVID-19 pandemic. The demand for AI was the impetus for our Master of Engineering in Artificial Intelligence for Computer Vision and Control, which we started two years ago. It's a very successful new program with more than 60 students, and it continues to grow.



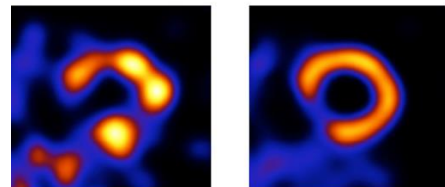
I'm excited for you to see the highlights of our department's strengths from this past year, including teaching accolades, millions in grant awards, alumni professional successes, and groundbreaking research from faculty and students.

### Jafar Saniie

Filmer Chair Professor of Electrical and Computer Engineering  
Department Chair

## NEWS HIGHLIGHTS

### **Miles Wernick and Yongyi Yang Receive \$6 Million in NIH Grants to Reduce Radiation in Medical Imaging with Deep Learning**



Professors of Electrical and Computer Engineering Miles Wernick and Yongyi Yang aim to use a type of artificial intelligence called deep learning to reduce the amount of radiation that patients are exposed to when undergoing medical imaging, which is the largest source of radiation exposure for the general public.

[Read More](#)

## Erdal Oruklu Receives 2020 Board of Trustees Outstanding Undergraduate Teaching Award

Associate Professor Erdal Oruklu was recognized for his years of excellent teaching and his dedication to students and the department.



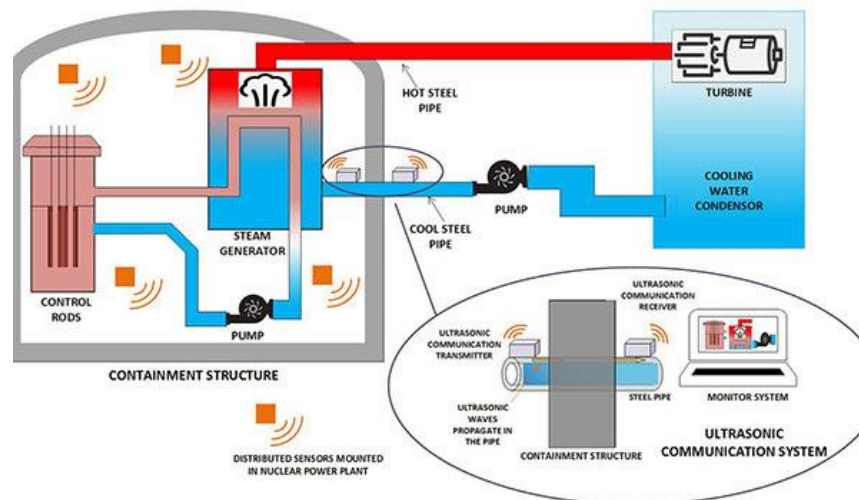
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## [John Shen Awarded ARPA-E Grant for Electric Jet Circuit Technology](#)

## [Associate Professor Lin Cai Works to Keep Devices Charged in the Internet of Things](#)

[Read More ECE News](#)

## STUDENT NEWS



## Department of Energy Graduate Fellowship Aids Research in Energy Sector Cybersecurity

David Arnold (EE/M.S. CPE '19) is the recipient of the United States Department of Energy's Office of Nuclear Energy's Integrated University Program graduate fellowship to further support his doctoral research efforts in pursuit of the creation of a secure communication network for ultrasonic communication nodes.

[Read More](#)

[Striving to Make a Difference: Daniel Arechiga](#)

[2021 ECE Day Seminars and Student Research Competition](#)

[Read More ECE Student Stories](#)

## ALUMNI NEWS



### **Farshogar Umrigar Visits CSMART Laboratory**

Farshogar Umrigar (EE, M.S. EE '17), product manager for Veriown Inc., uses OSISOFT computer technology to look at graphs depicting all of the renewable resources attached to Stuart Building on Mies Campus.

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[Read More ECE Alumni Stories](#)

## ECE IN THE NEWS

["Illinois Tech Wins Grant for Electric Aviation Technology"](#) (*Aerospace Manufacturing and Design*)

Grainger Professor of Electrical and Computer Engineering John Shen

["What the Blackout Crisis Reveals About Renewables, Grid"](#) (*E&E News*)

Distinguished Bodine Chair Professor Mohammad Shahidehpour