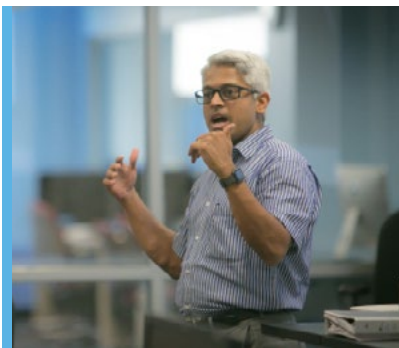


Faculty & Research

DOE Award for Cybersecure Sensors

Dr. Wenbing Zhao has received funding from the U.S. Department of Energy to develop cybersecure sensors for fossil power generation plants. The two-year, \$400,000 award is a partnership between Dr. Zhao and research staff from Florida International University's Applied Research Center (ARC) in Miami. The project is entitled, "Secure Data Logging and Processing with Block-chain and Machine Learning." See [here](#) for details.



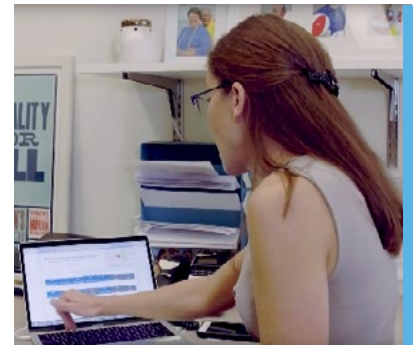
NSF Eager Grant

Dr. Nigamanth Sridhar has received a \$300,000 grant from the National Science Foundation (NSF) titled, "Composing Pathways for Collaboration Between Computer Science Researchers and Practitioners." The EAGER (EARly-concept Grants for Exploratory Research) project will design and pilot ways for computer science faculty to engage with and contribute to Pre-K-12 computer science learning opportunities in their communities. The EAGER program targets exploratory, but potentially transformative, research ideas. Click [here](#) for details.

Enhanced Access to Drug Treatment

A team of professors and students from Cleveland State University, including EECS Professor Dr. Wenbing Zhao, have developed a new web application. The web application will improve access to drug treatment services, reduce wait times and better ensure that individuals get the help they need.

"Drughelp.care is already becoming an essential tool for first responders, who act as access points for treatment services," says Berea Police Sergeant Pat Greenhill, coordinator of the Safe Passages Initiative, a local program that helps link individuals struggling with substance use with appropriate treatment. Click [here](#) for details.



Dr. Yau's Publication

Dr. Siu-Tung Yau's publication in Scientific Reports, "Culture-Free Bacterial Detection and Identification From Blood with Rapid, Phenotypic, Antibiotic Susceptibility Testing," is ranked no. 19 on the journal's list of the Microbiology Top 100 most highly accessed papers for 2018. This paper has been accessed over 3,000 times. Scientific Reports is an online journal of the Nature Publishing Company. The work is ongoing with the collaboration of the St. Vincent Charity Medical Center in Cleveland. Click [here](#) to see the details of the paper and [here](#) for the Top 100 list.

Dr. Zhao Patent

The CSU Patent Review Committee has approved the invention disclosure of Dr. Wenbing Zhao titled, "System and Method for Automatically Recognizing Activities and Gaze Patterns in Human Patient Simulations." Current nursing student instruction includes direct faculty observation during simulation training sessions or videotaping the entire simulation and having the instructor watch the videotape with the student to provide feedback. This invention describes an automated method to objectively assess the performance of students using computer vision, predefined rules and a custom-designed debriefing mobile application. Click [here](#) for details.



I-Corps@Ohio

Dr. Wenbing Zhao's team completed focused entrepreneurial and commercialization training through the 2019 I-Corps@Ohio Program to advance the translation of their fundamental research to commercial markets. His project is technology-enhanced human patient simulations. See [here](#) for details.

Active Disturbance Rejection Control (ADRC) Workshop

Dr. Zhiqiang Gao and Dr. Lili Dong successfully organized and hosted the 2019 IEEE Tutorial and Workshop on Active Disturbance Rejection Control (ADRC) at Cleveland State University on July 2, 2019. Thirty-eight people attended the workshop, including faculty members and students from CSU, Case Western Reserve University and Youngstown State University; scholars from Chinese Academy of Sciences, Southeast University, South China University of Technology and North China University of Electric Power; and researchers from The NASA Glenn Research Center. Engineers from local companies such as Bendix also attended the workshop.



Big Data Meetup

Dr. Sunnie Chung helped organized the Big Data Meetup event on January 28, 2019, at CSU's Student Center Ballroom. About 187 guests attended. Some of those include IBM Watson, Progressive, NASA, Rockwell, Parker Hannifin and Case Western Reserve University. Many CSU students attended the event as well. The program included presentations from Databricks Delta, Cloud Native ML Learning and a Spark API review from Casey Stella. For event recap details click [here](#).

Dr. Konangi's Retirement

Dr. Vijaya Konangi retired in May 2019. He had been at Cleveland State University for 39 years and served the Department, the College and the University in many capacities. He served as vice provost for faculty affairs for eight years (2005-2013). Thank you for your commitment to education and your hard work!





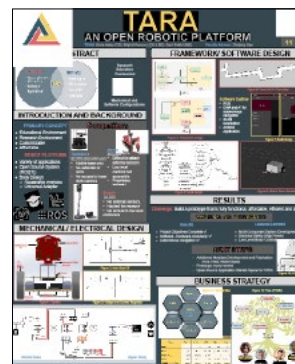
Senior Design & Startup Vikes

Our senior design project team, Parth Kanzaria, Eric Bobel, Keisi Kotobelli and Isaiah Traben, was awarded second-place at the 2019 Senior Design Symposium and Awards Dinner of the Washkewicz College of Engineering on Friday, May 3, 2019, in the Student Center (faculty advisor Dr. Wenbing Zhao). The project title is Semi-Automated Nursing Simulation with Mixed Reality Technology. See [here](#) for details.

A startup idea called NEO Physique by three EECS seniors, Emre Hatay, Brighid Rancour and Gazi Bisirici, was recognized at the sixth annual Startup Vikes event from March 22-24 in the Student Center. They received a cash infusion and prize package, including office space at local accelerators. See [here](#) for details.



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ACM Programming Contest

Our computer science student teams did a great job at the 2019 ACM International Collegiate Programming (East Central Regional) Contest on Oct. 25 and 26. In particular, team CSU-Prospect (Emily Zhao, Nathan Dixon and Maximilion Evans) ranked 11th place among 115 teams. Note that ACM is the largest professional organization of computer scientists and this competition has been held for 60 years. Dr. Haodong Wang was the faculty advisor. The results can be found [here](#).



Hackpalachia

Our computer science student team consisting of Ahlam Elmashae, Gopal Shukla, Richard Sent and Marko Varga won the first-place prize at the first-ever Hackpalachia. This is an inclusive and social entrepreneurship-focused hackathon that took place on Sept. 28 at Ohio University. Dr. Haodong Wang is the faculty advisor. See [here](#) for details.

Health IT

Two of our students, Donyiel Moore and Husan Almusawi, were selected for the inaugural “Learn-and-Earn” internship program in the field of Health Information Technology, which is orchestrated by BioEnterprise. They selected two students as the first cohort of the program and both of them are CSU computer science majors. Donyiel works at University Hospitals and Husan works at OnShift.



Graduate Highlights & Awards

One hundred and seventy-five students graduated with either a bachelor’s or a master’s degree on May 11, 2019, at the commencement ceremony. They include 93 undergraduate (29 BEE, 16 BCE and 48 BSCS/BSCIS) and 82 graduate (20 MSEE and 62 MCIS) degrees.

Here are notable graduates: Aubrey Lokey a double major in computer engineering and physics, was recognized as the University Valedictorian. She was accepted into the Experimental Nuclear Physics Ph.D. program at Michigan State University, with a full 5-year fellowship and tuition support.

Brian Malone, electrical engineering, is a U.S. veteran and was the recipient of 2017-18 and 2018-19 IEEE Power & Energy Society Scholarship Plus Scholar, 2018 IEEE PES G. Ray Ekenstam Memorial Scholarship (National Award) and 2019 John W. Estey Outstanding Scholar for IEEE Region 2.

Alonte Garnett, computer engineering, did excellent work with the Great Lake Science Center and Rockwell Automation to create a new exhibit, an automated data collection and analytics platform at GLSC.

Theodore Mullee, double major in electrical and computer engineering with three minors in computer science, math and physics. He acquired an internship at the NASA Glenn Research Center and another internship at FirstEnergy. He’s also involved with the IEEE student section, Tau Beta Pi and the Vietnamese Student Association. Through the IEEE student section, he has volunteered for the VEX robotics competition every year.

In addition, outstanding senior awards went to Adam Stead (EE), Mullee Theodore (CE) and Bailey Kremiller Kochi (CS). Enrichment Awards were awarded to Ivan Petriv (EE), Sarah Alzahrani (CE) and Alan Moore (CS).

Congratulations!



New Freshmen Design Section (ESC 120)

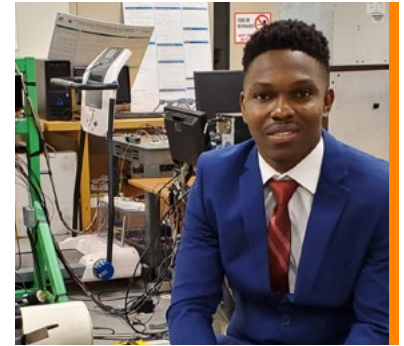
We offer two sections of ESC 120 Freshmen Design using the TI Robot System. Dr. Jackie Woldering has developed this course.

Three Ph.D. Dissertations Were Defended

Mr. Donald Ebeigbe's dissertation (under Dr. Dan Simon's supervision) is entitled, "Control of Rigid Robots with Large Uncertainties Using the Function Approximation Technique." He now has a postdoctoral research scholar position at Pennsylvania State University, where he'll be working on the NIH project, "Predictive Personalized Public Health (P3H): A Novel Paradigm to Treat Infectious Disease."

Mr. Gholamreza (Saman) Khademi's dissertation (under Dr. Dan Simon's supervision) is entitled, "Design and Optimization of Locomotion Mode Recognition for Lower-Limb Amputees with Prostheses." He now has a postdoctoral research scholar position at the Cleveland Clinic in the Department of Quantitative Health Sciences.

Mr. Yang Zhao's dissertation (under Dr. Lili Dong's supervision) is entitled, "Path Following Control of Container Ships." Yang is currently a tenure-track assistant professor in the Physics and Engineering Department at Taylor University in Upland, Indiana. Yang will conduct teaching, research and service activities at the university.

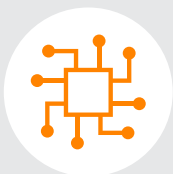


Congratulations!



Graduate Student Award

The College of Graduate Studies announced the 2018/2019 Graduate Student Awards, recognizing graduate student achievement. EECS Ph.D. student Hanieh Mohammadi received the Outstanding Research Award in Natural Science/Engineering/Math. See [here](#) for details.

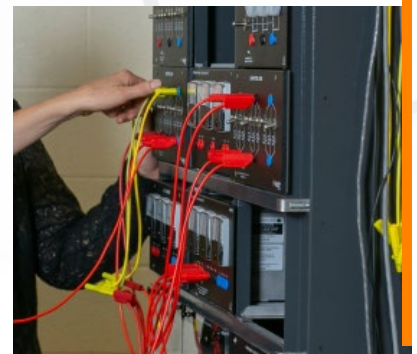


Fulbright Student from Nigeria

Dr. Zhiqiang Gao is advising a Fulbright student from Nigeria. Mr. Ihechiluru Okoro is currently a Ph.D. candidate in Electrical Engineering at the University of Nigeria and will conduct research in control and systems engineering with Dr. Gao from August 2019 through February 2020.

Circuit Board Maker Workshop

The Circuit Board Maker Workshop was held on Jan. 29 and March 19 in the Dan T. Moore MakerSpace. Students learned the basics of PCB fabrication using an LDK s63 Rapid Prototyping machine. The workshop included explanation of material construction, PCB design suggestions with necessary design constraints and an overview of the LDK s63 software, components and operational procedures. Additionally, the workshop offered troubleshooting suggestions as well as some tips and tricks.



HKN Induction Ceremony

Eta Kappa Nu, the honor society of IEEE, had an induction ceremony on April 19, 2019. Twenty-one outstanding EECS students were inducted into HKN. The impressive induction ceremony was carried out by HKN faculty advisor Dr. Lili Dong and student officers Anusree Mandali, Kelsey Letizio, Mark Travis, Shubo Zhang and Anson Bajramaj. In the dinner reception after the ceremony, Dr. Allen Morinec delivered a powerful presentation entitled “Get the Job and Keep It.” In the presentation, Dr. Morinec shared his over 30 years of industrial experience in career development, and encouraged the inductees to be successful.



A Letter to IEEE Volunteers From Mr. Jim Watson

Congratulations to all who have shared your time to be an active IEEE member and volunteer during the 2018-2019 school year. It has a positive impact on keeping the CSU's IEEE student branch No. 1 in the U.S.

Alumni & Community

IEEE Women-in-Engineering Seminar

Dr. Lili Dong successfully organized and hosted an IEEE Women-in-Engineering seminar on April 12, 2019, at CSU. The seminar featured opening remarks by Steve Galecki, the chair of IEEE, Cleveland Section. Then Dr. Hannah Arson, a lead data scientist from PanData LLC, gave a keynote speech entitled “A Data Scientific Approach to Career Optimization (with n=1).” The event attracted about 65 attendees, including students and faculty/staff members from CSU and Case Western Reserve University, as well as local industrial engineers. This IEEE WIE seminar was sponsored by IEEE, Cleveland Section.





Industry Visits

Peter Hoffman, director of engineering of MTD Products, and Doug Reece, software manager of [MTD Products](#) visited CSU on April 17. Founded in 1932, MTD Products is a worldwide leader of outdoor power equipment headquartered in Valley City, near Cleveland. Its current family of brands includes Cub Cadet, Troy-Bilt and Remington, as well as Robomow, Yard Machines, Rover, WOLF-Garten and Bolens. Hoffman is a 1989 Fenn College graduate. He has a bachelor's of science degree in electrical engineering.

John Robertson, president of the [RoviSys Corporation](#) visited his alma mater on April 18 to discuss collaborations between RoviSys and CSU. Founded in 1989 in Cleveland, RoviSys is the leader in providing the most effective methods for building, analyzing, improving and maintaining automation systems.

Dave Skerkowski (1979, MSEE, director of engineering of [SAFRAN](#)) visited CSU on Aug. 13. SAFRAN is an international high-technology group and tier-one supplier of systems and equipment in the aerospace and defense markets. Skerkowski is located at its Twinsburg facility.

CSU and Apollo 11

July 20, 2019, was the 50th anniversary of Apollo 11 landing on the moon. Frank Burgett, a 1965 electrical engineering graduate, was part of the first group of cooperative education students selected to work at the NASA Manned Spacecraft Center, later renamed the Johnson Space Center (JSC) in 1962. He would be hired by JSC as an electrical engineer in 1965 and would make major contributions to the development of life support systems and spacesuits for the Mercury, Gemini and Apollo programs. This included providing real-time mission support testing on the improvised life support system developed for Apollo 13 astronauts. He retired from JSC in 2003.



William Lund, a 1955 electrical engineering graduate, played a key role in the development of the guidance systems for the Apollo 11 space craft. He served as an engineer for many years with Raytheon Co. and was a member of their Apollo program design team.

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