

SAN JOSÉ STATE UNIVERSITY

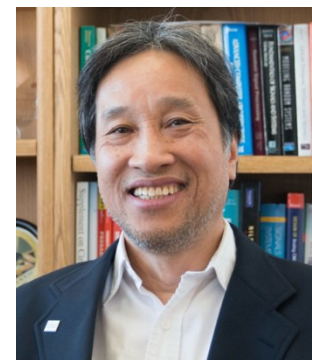
Electrical Engineering Newsletter

Fall 2020

Welcome to Fall 2020

Dear Students, Alumni, Faculty, Staff, and Friends:

For those of you returning for the Fall term, welcome back! For the rest of you, thanks for checking in with us. We've been quite busy. The 2019-2020 school year has been anything but ordinary. In mid-March, students and faculty were sent home from campus due to COVID-19. The Electrical Engineering Department rose to the challenge. Faculty members very quickly converted their courses to an online format. In addition, the Summer Session and Fall 2020 were set up for remote teaching. This included plans for exams and hybrid lab courses too. Even the spring commencement was a virtual event, with our department awarding 92 BSEE degrees and 164 MSEE degrees.



Back on December 7, 2019 we held an SJSU Electrical Engineering Alumni Reunion. The event included five alumni career panelists: Anisha Seli (MSEE 2009), Shiva Moballeggh (MSEE 2015), Nghia Do (BSEE 2013), Luyen Tran (MSEE 2001)

and Syed Hani Abidi (BSEE 2011). The reunion was held in conjunction with our Fall 2019 Student Symposium in the Student Union Ballroom. Nearly 50 groups of students presented their projects and findings. The symposium also included two invited projects from the Fukuoka Institute of Technology in Fukuoka Japan. And On May 15, the EE department held its Spring 2020 Student Project Symposium online. The online format didn't seem to deter the presenters or attendees, as 16 Undergraduate and 66 Graduate teams of students presented their projects and findings. Visit the following links to view the symposia posters: ([Fall 2019 Posters](#)) ([Spring 2020 Posters](#))

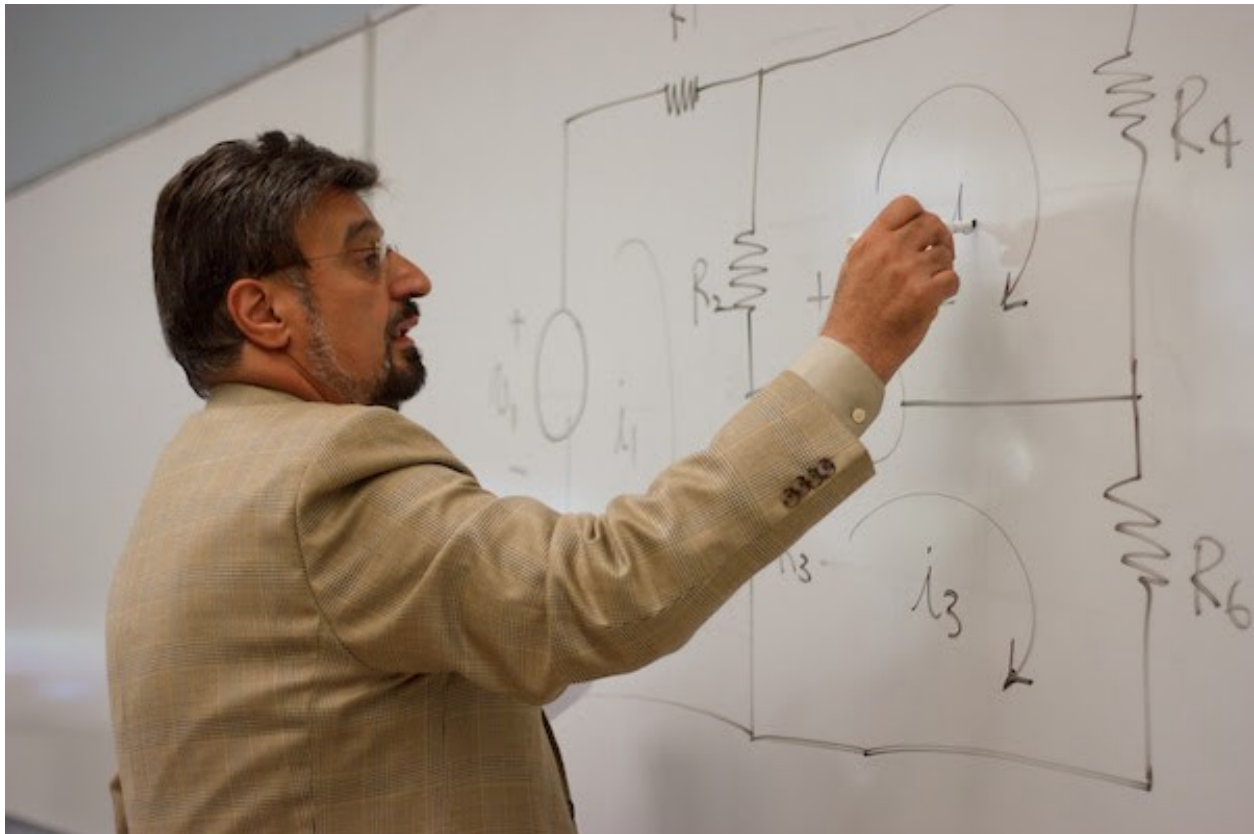


I'd also like to take this time to invite you to our Fall 2020 Student Project Symposium. This semester's event will again be held virtually on December 8, 2020. For more symposium details, check on the [Electrical Engineering department Website](#).

We are very proud of the accomplishments made by our students, faculty and staff. In fact, Money Magazine recently named San Jose State University the #1 Most Transformative College in the nation. Take pride in this distinction, as you all share in it.

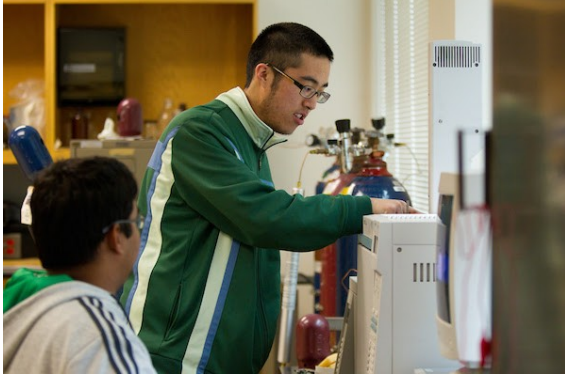
Thuy T. Le, Professor & Department Chair

Department Updates



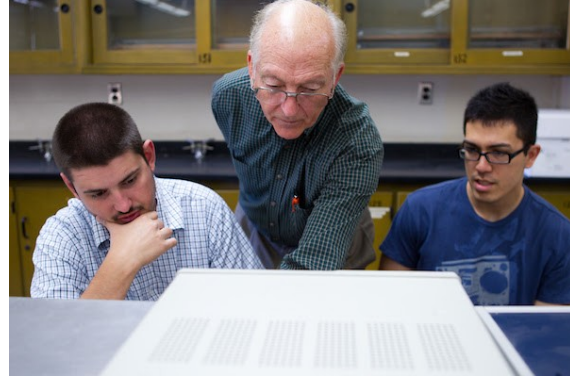
Curriculum

The Electrical Engineering department is augmenting our curriculum. Our first course in Quantum Computing (EE225) was offered this year. We are also gearing up for courses in Advanced Network Security for IoT, Fiber Optic Networking, and AI in Computer Vision, to be offered in the spring of 2021.



Student News

Undergraduate student Adam Elwailly, a senior, had his paper accepted to the IEEE Workshop on Wide Bandgap Power Devices and Applications in Asia (WiPDA-Asia) 2020. He used his knowledge in device physics to understand the design space of the novel gallium oxide power transistors. His paper is: Adam Elwailly, Ming Xiaob, Yuhao Zhang, and Hiu Yung Wong, "Design Space of Vertical Ga₂O₃ Junctionless FinFET and its Enhancement with Gradual Channel Doping". He will present the paper virtually in late September. This is a collaborative work with CPES, Virginia Tech.



Faculty News

In the spring, Ibrahim Delibalta joined our department. Ibrahim Delibalta joined SJSU as a part time lecturer. He holds a Ph.D. from Koc University, Istanbul. He has worked at various companies in Silicon Valley since 1995. He is currently a senior SoC Design Manager at Intel. This fall, Dr. Delibalta will be teaching EE277A Embedded SoC Design.

Congratulations to Birsen Sirkeci for her recent promotion from Associate Professor to Full Professor. As Associate Professor, Dr. Sirkeci also served for several terms as the Graduate Coordinator for Electrical Engineering. This fall, she will be teaching EE258 Neural Networks, EE297A MSEE Project Proposal and EE297B MSEE Project.



IEEE

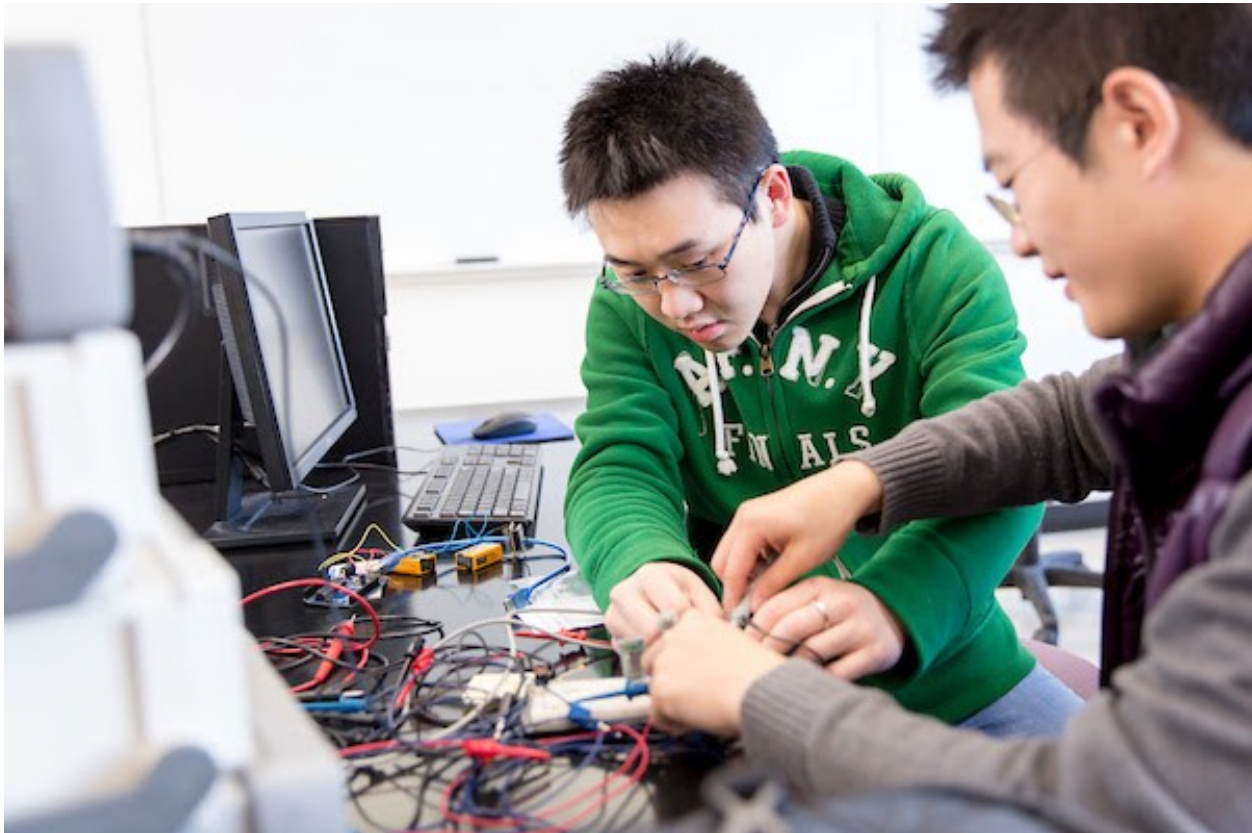
The IEEE (Institute of Electrical and Electronics Engineers) is the largest professional society in the world. San Jose State University has the most active student IEEE branch in the Bay Area, dedicated to helping Electrical Engineering students transition to the professional realm.

Congratulations to the club's recently elected officers! New officers include Deric Mark as President, Steve Lucha as Vice President, Devin Ary as Treasurer and Daniel Sada as Event Coordinator. Additionally, Ahmad Ghanizadah, Sabeeq Karim, Alon Kopelman, and Elisa Parent were elected as General Officers. A special thank you to all of the outgoing IEEE club officers.

The IEEE has a large club room where students can study, work on projects and socialize. There is a senior project lab room, computer lab, locker usage and snack bar. They even serve free coffee and donuts each week. They host events with industry and help members with personal, professional and technical development. Last semester IEEE hosted events with Intel, Texas Instruments, Analog Devices, Cypress Semiconductor, SJSU alumni and the Society of Women Engineers. The club has helped many of its members pass classes, pick up new skills and find jobs. Many alumni work in the area and are happy to help train students in any

way they can. It is a great way to network and make friends. Join IEEE now and enjoy these great services!

MORE
INFORMATION



Research

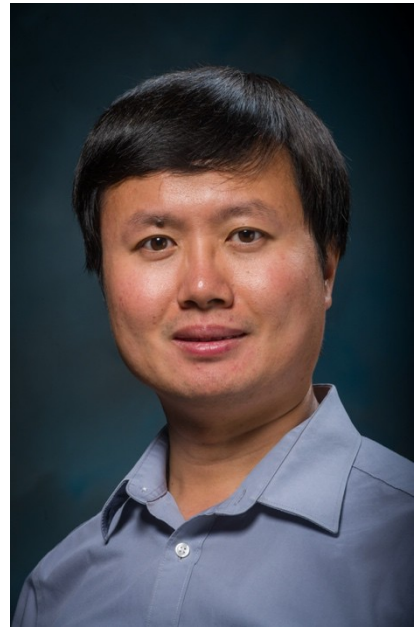
Our faculty weren't just busy with classes last year. In addition to their teaching duties and converting their courses to an online format, our EE faculty members published nearly 30 conference and journal articles and received over \$250,000 in grant and research funds.



Professor Badawy
in the SiC Industry in Silicon Valley".

On March 30, Assistant Professor Mohamed Badawy received an \$120,000 award from Facebook to fund his project, "Power Electronic Converters for Data Center Applications (48V to 12V DC-DC Converter)."

Assistant Professor Hiu-Yung Wong and Assistant Professor Mohamed Badawy received a grant for nearly \$50,000 from PowerAmerica for a research project titled "Development of Low-Cost Graduate Course with Virtual Fab and Hands-on Circuit Lab Experience to Prepare Students to Work



Professor Wong

Dr. Wong also received \$30,000 from Synopsis for a materials modeling research project and \$27,000 grant from Altomera for a project titled "Modeling and Simulation of MST".



Professor Parent

Professor David Parent received a \$15,000 Applied Materials Grant to develop an organic semiconductor evaporation process. Dr. Parent also received a \$10,000 grant through the College of Engineering. Title of the project is "Small group activities to encourage collaboration with UC Merced".

EE Faculty and Staff

Mohamed Badawy,
Assistant Professor
Ph.D., University of Akron

Tri Caohuu,
Professor
Ph.D., Texas A & M
University

Chang Choo,
Professor
Ph.D., Rensselaer
Polytechnic Institute

Sotoudeh Hamedi-Hagh,
Professor
Ph.D., University of Toronto

Lili He,
Professor
Ph.D., State University of
New York

Ping Hsu,
Professor
Ph.D., University of
California, Berkeley

Binh Q. Le,
Assistant Professor
Ph.D., Stanford University

Thuy T. Le,
Professor & Department
Chair
Ph.D., University of
California, Berkeley

Essam Marouf,
Professor
Ph.D., Stanford University

Nader F. Mir,
Professor
Ph.D., Washington
University

**Robert H. Morelos-
Zaragoza,**
Professor
Ph.D., University of Hawaii

David W. Parent,
Professor
Ph.D., University of
Connecticut

Jonathan Ponniah,
Assistant Professor
Ph.D., University of
Illinois at Urbana-
Champaign

Jalel Rejeb,
Associate Professor
Ph.D., Syracuse University

Birsen Sirkeci,
Professor
Ph.D., Cornell University

Hiu-Yung Wong,
Assistant Professor
Ph.D., University of
California, Berkeley

Juzi Zhao,
Assistant Professor
Ph.D., George Washington
University

Eveline Bellegarda,
Lecturer
Ph.D., University of
Rochester

Anindita Bhattacharya,
Lecturer
Ph.D., Northeastern
University

Eric Crabill,
Lecturer
MSEE, Stanford University

Ibrahim Delibalta,
Lecturer
Ph.D., Koc University

Khosrow Ghadiri,
Lecturer
Ph.D., International
Technological University

Morris Jones,
Lecturer
MSEE, Brigham Young
University

Ray Kwok,
Lecturer
Ph.D., University of
California, Los Angeles

Nhat Nguyen,
Lecturer
Ph.D., University of
California, Berkeley

Ahmad Shahsiah,
Lecturer
Ph.D., Rensselaer
Polytechnic Institute

Igor Tyukhov,
Lecturer
Ph.D., Moscow Power
Engineering Institute

David Bruck,
Graduate Consultant &
Advisor
Ph.D., Cornell University

Audrey Leong,
Systems Analyst

Navid Ghazisaidi,
Lecturer
Ph.D., University of Quebec

Jalil Kamali,
Lecturer
Ph.D., Stanford University

Sang-Soo Lee,
Lecturer
Ph.D., Carnegie Mellon
University

Tan V. Nguyen,
Lecturer
Dr. Eng., Santa Clara
University

Chao-Li Tarng,
Lecturer
Ph.D., University of
Washington

Tom Wrappe,
Lecturer
MBA, University of Chicago

Bradley Carrell,
Department Analyst

Bhawandeep SinghHarsh,
Lecturer
MSEE, San Jose State
University

JeongHee Kim,
Lecturer
Ph.D., New Mexico State
University

Bhaskar Mantha,
Lecturer
Ph.D., University of
Cincinnati

Christopher Pham,
Lecturer
MSEE, San Jose State
University

Simon Tian,
Lecturer
Ph.D., Virginia Tech

Manizeh Zand,
Lecturer
MSEE, San Jose State
University

Roopa Gadham,
Department Coordinator

Industry Advisory Council

Wendy al-Mukdad,
Senior Utilities Engineer
Calif. Pub. Utilities
Commission

Jamil Kawa,
Synopsys Fellow
Synopsys

Gokhan Mergen,
Software Engineer &
Manager
Google

Meeta Roy,
Head of Operations
Bose Corporation

Utku Diril,
Infrastructure Technologist
Facebook

Jason Ma,
Director of Partner
Engineering
Google

Lynn Olson,
Vice President
Intel Corporation

Ericson Wen,
Engineering Manager
Tesla, Inc.

Howard Ho,
Research Manager
IBM Almaden Research
Center

Yilka Masada,
President and CEO
Kelmendi Engineering Inc.

Kristoff Richter,
Managing Director
Maxim Integrated



SJSU SAN JOSÉ STATE
UNIVERSITY

One Washington Square
San Jose, CA 95192

© 2019 Copyright [Privacy Policy](#)