



Message from the Chair

Driving Innovation in Mechanical Engineering at SDSU. The SDSU Mechanical Engineering Department is pushing the boundaries of innovation from advanced 3D printing to sustainable energy solutions. With SDSU's recent achievement of R1 research status, our commitment to pioneering discovery and preparing the next generation of problem-solvers has never been stronger. In this newsletter, you'll find updates on groundbreaking faculty research, student team highlights (like Baja SAE and Lunabotics), career events, and departmental news. We're also excited to share our plans to launch a Naval (Ocean) Engineering Concentration, leveraging San Diego's proximity to the U.S. Navy and NASSCO. Through partnerships with HD Hyundai and Seoul National University, this initiative aims to revitalize U.S. shipbuilding through student exchanges and internships. If you or your organization would like to support this effort, please contact Department Chair Dr. Patrick. Kwon at pkwon@sdsu.edu.



Stay connected and get inspired by the energy and ingenuity of the SDSU Mechanical Engineering community. Go Aztecs!

Sincerely,

Patrick Kwon, Ph.D.
Professor and Chair
[SDSU Mechanical Engineering](#)
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Join Us for Engineering Design Day 2025

12 Mechanical engineering teams will showcase their projects at Design Day on Thursday December 11th, 2025 in the EIS Quad. To view the map click [here](#)

SDSU

College of Engineering
Mechanical
Engineering

Mechanical Engineering's Fall Senior Design Day

Thursday, December 11th
from 1:00-3:30pm

@ EIS COURTYARD



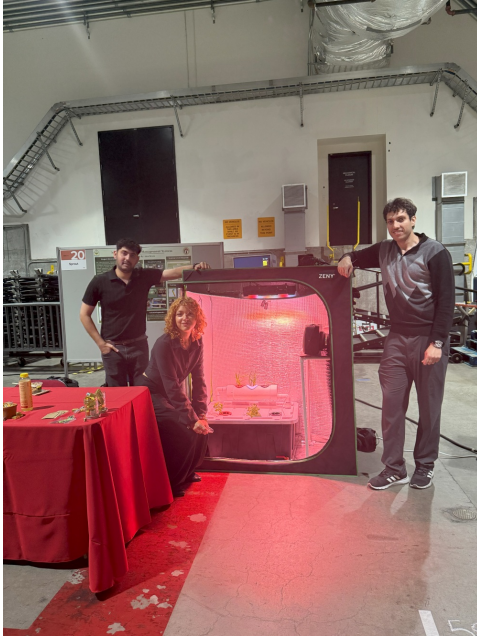
**Students Working on Their Capstone Projects in the
Northrop Grumman Fabrication Facility**



Spring 2025 Design Day Photos

The Spring 2025 Design Day was held May 7th, 2025 in Viejas Arena. Thirty-two teams showcased their projects to sponsors and visitors. The photos below are images from the displays. [Read More!](#)





Student Spotlight

One of our graduate students earned the Distinguished Master's Thesis Award in STEM disciplines. Congratulations Eric Wilkinson!

CERTIFICATE OF ACHIEVEMENT

ON THIS DAY, OCTOBER 3, 2025, THE COLLEGE OF
GRADUATE STUDIES AT SAN DIEGO STATE UNIVERSITY
HEREBY ACKNOWLEDGES

Eric Wilkinson

As an SDSU nominee for the 2025-2026 Western Association of Graduate
Schools (WAGS)/ProQuest Distinguished Master's Thesis Award in
STEM Disciplines

Tracy Love

Tracy Love, Ph.D.
Dean, College of Graduate Studies
San Diego State University

SDSU

College of
Graduate Studies



Qingqing He was selected to attend the MIT rising star in Mechanical Engineering workshop last week. The Rising Stars in Mechanical Engineering workshop is aimed at graduate students and Ph.D holders considering future careers in academia.

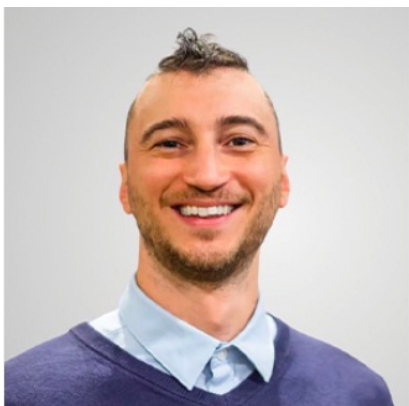
Featured News!

**Department Chairman, Dr. Patrick Kwon recently
featured on Korean News**



Click [here](#) to read more about the South Korea, U.S. launch joint shipbuilding education program.

Dr. Luca Carmignani's Publishes Fire Safety Article Featured in the LA Times



Click [here](#) to view the original article.

Click [here](#) to view the article shared by the LA Times.

Click [here](#) to view the KPBS interview with him on how to prepare for a wildfire.

Dr. May-Newman lead a successful BMES Annual meeting at the San Diego Convention Center



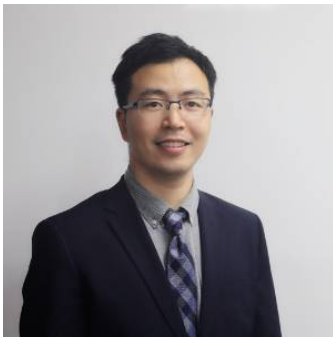
Special thanks to the Co-Chairs of the 2025 BMES Annual Meeting: Karen May-Newman, Chiara Bellini, and Craig J. Goergen. Their vision for BMES2025 included specialty abstracts for sessions centered on Bridging Healthcare Gaps: The Role of Biomedical Engineering, six Plenary Sessions, and an unforgettable hosted reception and Member Appreciation Night at Bayfront Park. This was a banner year, attracting nearly 5,000 attendees from 25 countries. Click [here](#) to read more.

Alumni Eli Uva Featured on KUSI News

Click [here](#) to view the interview.



Recent Faculty awards



Dr. Yang Yang has won the NSF Career Grant. Click [here](#) to read more.



Dr. Zahra Nili Ahmadabadi, Reza Akhavian, Christopher Paolini, and Junfei Xie have been awarded a Collaboration Grant. Click [here](#) to read more.

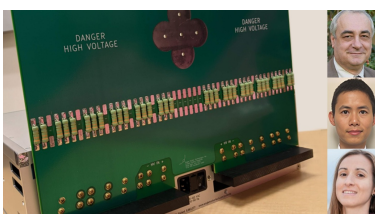


Dr. George Youssef was awarded the NSF grant. Click [here](#) to read more.

Dr. Luca Carmignani has received the NSF grant. Click [here](#) to read more.



Dr. Subrata Bhattacharjee, Professor of Mechanical Engineering, has received an NSSC-Grant-Distribution. Click [here](#) to read more.



The College of Engineering is celebrating San Diego State University's first-ever grant from the prestigious W.M. Keck Foundation, known for its support for potentially high-impact research. Led by Dean and Distinguished Professor

Eugene Olevsky, along with Wenwu Xu and Elisa Torresani from the SDSU Mechanical Engineering Department, the project will explore the use of powerful electronic pulses to develop new, advanced materials and could have applications for higher precision in materials processing in aerospace, transportation, and manufacturing. Proud moment for SDSU's R1 research community and a huge leap forward for high-impact science. Click [here](#) to view the full story!

Speakers from our Fall ME Seminar Series

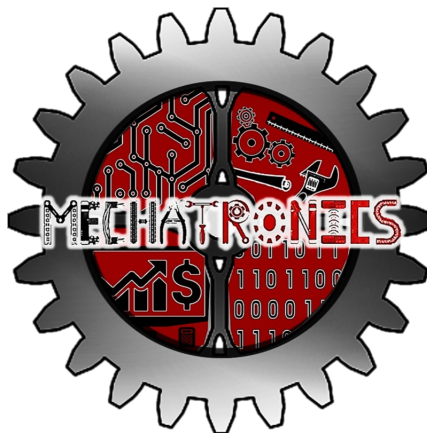
- **September 9th, 2025 - Flame Deposition of Graphenic Nanomaterials: Gas-phase Precursors and Carbon Nanostructure, Dr. Joaquin Camacho, San Diego State University**
- **September 23rd, 2025 - Solving Partial Differential Equations using the MOLE Library, Dr. Jose E. Castillo, San Diego State University**
- **September 30th, 2025 - Wildfire Dynamics at the Wildland Urban Interface: Propagation and Ignition, Dr. Mohammadhadi Hajilou, University of Portland**
- **October 7th, 2025 - Modular Truss Robots for Extreme Environments, Dr. Andrew Bae, University of Nevada, Las Vegas**

- **October 8th, 2025 - Engineering Living Functional Heart Valve Tissues with Tissue-Mimetic Nanofibrillar Biomaterials and Umbilical Cord Perivascular Cells, Dr. Neda Latifi, University of South Florida**
- **October 21st, 2025 - Engineering the Future: Empowering the Next Generation with Simulation in Ansys, Dr. Hesam Moghaddam, Ansys**

STUDENT ORGANIZATIONS



Baja SAE team consists of 35+ members who are challenged every school year to design, test, and build a single seat off road buggy that will compete in 3 nation-wide events where 100 global universities are evaluated in static and dynamic events.



The **Mechatronics Club** consists of 40 members who are developing an Autonomous Underwater Vehicle (AUV) for the 2019 RoboSub Competition.



Aztec Electric Racing, commonly referred to as AER, is a 501(c)3 nonprofit, electric Formula SAE team at SDSU. They design, build, and race a small-scale, high performance race car each year.



ASME Club sponsors workshops, tours and guest speakers to prepare students for a career in the field of Mechanical Engineering.

BMES Mission:

Our mission is to promote the education of our members by supporting academic and professional excellence, and innovative research.



Quality of Life + brings together America's brightest engineering students at leading universities nationwide to create life-transforming assistive technology for our country's injured and ill heroes. Their mission is to foster and generate innovations that aid and improve the quality of life for those who have served our country.

SDSU FACULTY PAGES

**Dr. Patrick Kwon, Dept
Chair**

Dr. Fletcher Miller

Dr. Sara Adibi

Dr. Kee Moon

Dr. Asfaw Beyene

Dr. Khaled Morsi

Dr. Amneet Bhalla

**Dr. Peiman
Naseradinmousavi**

Dr. Subrata Bhattacharjee

**Dr. Zahra Nili
Ahmadabadi**

Dr. Joaquin Camacho

Dr. Eugene Olevsky

Dr. Luca Carmignani

**Dr. Sung-Yong (Sean)
Park**

**Dr. Meysam Heydari
Gharahcheshmeh**

Dr. Elisa Torresani

Dr. Sunghum (John) Kang

Dr. Zhijie Wang

Dr. Samuel Kassegne

Dr. Wenwu Xu

Dr. Parag Katira

Dr. Yang Yang

Dr. Santosh KC

Dr. George Youssef, PE

Dr. Lingping Kong

ME Dept. Website

Dr. Karen May-Newman

From the Baja Car to Senior Capstone Projects to Scholarship support, your generous giving makes a tremendous difference for our students. Please consider making a gift to support the Department of Mechanical Engineering

[Give to the Department](#)



The Department is the vibrant home to about 1400 undergraduate and graduate students, several active and award-winning student clubs and organizations, multiple teaching and research laboratories, internationally-renowned faculty who are...

[Read More](#)



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