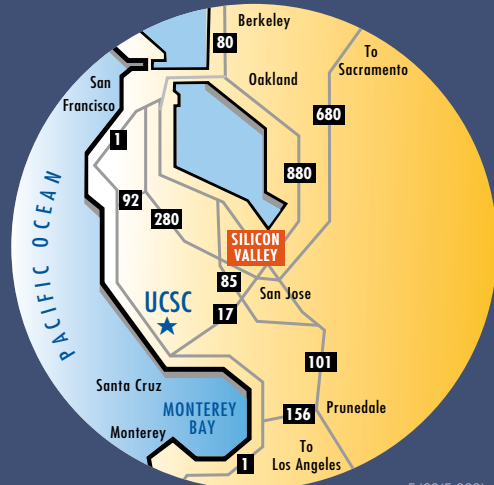


On the Web: www.ce.ucsc.edu

UC Santa Cruz is the University of California campus serving Silicon Valley. The campus is located off Highway 1 on the Central Coast of California 30 miles southwest of San Jose, 75 miles south of San Francisco, and 350 miles north of Los Angeles.



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University of California, Santa Cruz
Department of Computer Engineering
1156 High Street
Santa Cruz, CA 90564



Computer Engineering @ UC SANTA CRUZ



Undergraduate researchers:

Designing solutions for the future



The Baskin School of Engineering is dedicated to collaborative, interdisciplinary research and training at the forefront of modern technology. Students and faculty work across traditional boundaries to engage in innovation and discovery.

With 100 faculty members, the Baskin School of Engineering comprises six departments:

Applied Mathematics & Statistics

Biomolecular Engineering

Computer Engineering

Computer Science

Electrical Engineering

Technology & Information Management (planned)

8 undergraduate programs

6 graduate programs

350 graduate students

1,000 undergraduate students

Department of Computer Engineering

Networks: Wireless networks, high-speed networks, sensor networks, algorithms and protocols for computer communication

A. Brandwajn, J. J. García-Luna-Aceves, K. Obraczka, B. Smith, A. Varma, C. Westphal

Robotics and Control: Autonomous vehicles, sensor fusion, biomolecular control, biomedical robotics

C. Bazeghi, R. Curry, W. Dunbar, G. Elkaim, S. Petersen, J. Rosen, D. Wiberg

Computer System Design: CAD of VLSI, computer architecture, VLSI and FPGA design, placement and routing, fault diagnosis

G. Alers, A. Brandwajn, P. Chan, F. J. Ferguson, M. Guthaus, R. Hughey, T. Larrabee, D. Pease, J. Renau, M. Schlag

Sensing and Interaction: Computer vision, remote sensing, telemetry, computer-based collaboration, assistive technology, human-computer interaction

S. Kurniawan, R. Manduchi, P. Mantey, J. Rosen, H. Tao



The Lower Limb Exoskeleton and the Santa Cruz Green Wharf Renewable Energy project teams.

On the cover: Stephen Petersen (upper left), recipient of many teaching awards, mentors numerous design projects.



Senior capstone design projects:

Breakthrough undergraduate research

UCSC's Computer, Electrical, and Bio Engineering seniors form research teams in the six-month Engineering Design Project that culminates these programs. Problems are proposed by engineering and science faculty, by researchers from NASA, USGS and other laboratories, and by the students themselves. Recent examples include building a lightweight bionic exoskeleton and a low-impact marine microgrid energy system.

Each project is mentored by faculty and sponsors as team members complete the journey from student to engineer.