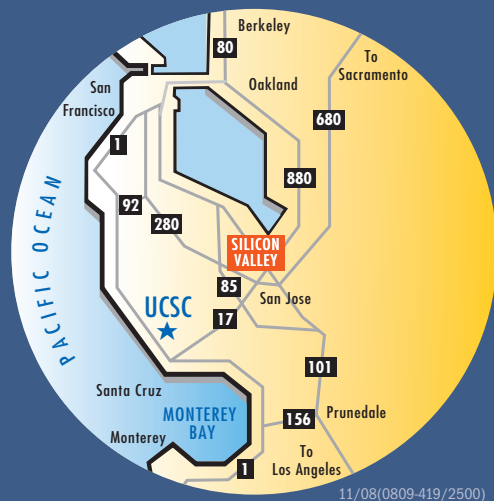UC Santa Cruz is the University of California campus serving Silicon Valley: The campus is located off Highway 1 on the Central Coast of California 30 miles southwest of San Jose, 75 miles south of San Francisco, and 350 miles north of Los Angeles.

80.080

Baskin Engineering
UC SANTA CRUZ

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

Computer Engineering @ UC SANTA CRUZ

Robotics and Control: *Jacob Rosen brings biomedical robotics to our autonomous systems group.*

Baskin Engineering
UC SANTA CRUZ

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
800 undergraduate students

Department of Computer Engineering

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

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

Embedded and Autonomous Systems: Embedded software design and verification, robotics and control, autonomous vehicles, sensor fusion, biomolecular control
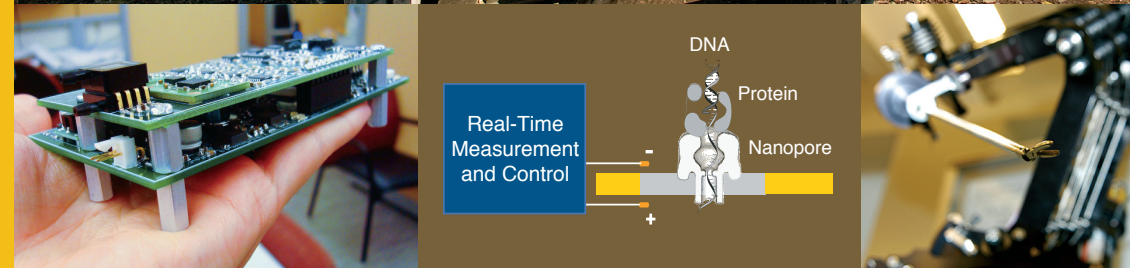
L. de Alfaro, C. Bazeghi, W. Dunbar, G. Elkaim, S. Petersen, J. Rosen

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

A. Brandwajn, P. Chan, A. Di Blas, F. J. Ferguson, M. Guthaus, R. Hughey, T. Larrabee, J. Renau, M. Schlag

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

L. de Alfaro, S. Kurniawan, R. Manduchi, P. Mantey, H. Tao

Profs. Elkaim, Rosen, and Dunbar lead research on autonomous systems at all scales.

DNA
Protein
Real-Time Measurement and Control
Nanopore

Join us *in inventing an autonomous winged catamaran, a robotic operating room, a flying sensor network, or the future of DNA sequencing technology.*

Research in UCSC's Department of Computer Engineering melds the theoretical and the practical to create new systems for controlling molecular sensors, performing surgery and rehabilitation, monitoring the environment, and traveling on land, sea, or air.

The research forms the core of our growing emphasis on **robotics** education at the undergraduate and graduate levels.