

## CENS Undergraduate and Graduate Student Programs

Karen Kim, Wesley Uehara, Deborah Estrin, William Kaiser and Gregory Pottie



### Overview:

CENS undergraduate and graduate programs are designed to provide an educational pipeline to graduate school and increase the diversity of CENS and those pursuing education and careers in science and engineering.

### Program Components:

- CENS Undergraduate/Graduate Courses
- Technical Seminars
- Undergraduate Summer Research Program
- NSF Science & Technology Network: Collaborative Recruitment of Undergraduate Researchers

### Description of the Programs:

#### CENS Undergraduate/ Graduate Courses

CENS has developed several courses for both undergraduate and graduate students currently enrolled at UCLA. These courses are generally offered as part of the computer science and electrical engineering curriculum.

Courses Include:

- EE 190D: Networked Embedded System Engineering Design
- CS 213: Advanced Topics in Distributed Embedded Systems Course
- EE202A: Embedded and Real-Time Systems
- EE206A: Mobile and Wireless Networked Computing Systems

We have developed several new undergraduate courses this year, including:

- CS113: Introduction to Distributed Embedded Systems
- EE180D: System Design

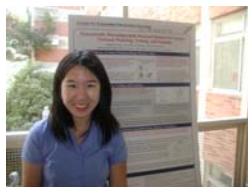
#### Technical Seminars

The CENS Technical Seminars are held every Friday for one hour. The goal of this technical seminar series is to expose CENS students and faculty to various CENS-related topics, evoke cross-disciplinary discussions, and stimulate new ideas.



The CENS Technical Seminar Series also represents a key focus of our efforts in integrating research and education. The seminars incorporate a variety of presenters; including CENS graduate students, CENS faculty, and external faculty. During the summer, the undergraduate students participating in our summer research internship program also attend the technical seminars.

#### Undergraduate Summer Research Program



*CENS not only allowed me to develop a passion for research and the material I study, but it opened doors for me that I did not foresee as possible*

~2004 CENS Undergraduate Scholar

CENS encourages undergraduates to become involved in CENS, particularly through our summer undergraduate research experience. The eight- to ten- week annual summer program provides undergraduates the opportunity to gain hands-on research experience in CENS labs; to work with CENS faculty, staff, and graduate students; and to participate in research, professional development, and social activities with other CENS undergraduate scholars.

#### NSF Science & Technology Network: Collaborative Recruitment of Undergraduates

The Science and Technology Center (STC) network is designed to increase the number of underrepresented US undergraduate students who apply to and participate in the Science and Technology Center Undergraduate Research Programs.

Participating Science and Technology Centers include:

- Center for Adaptive Optics
- Center of Advanced Materials for Purification of Water with Systems
- Center for Behavioral Neuroscience
- Center for Biophotonics, Science & Technology
- National Center for Earth-Surface Dynamics
- Center for Embedded Networked Sensing
- Center for Environmentally Responsible Solvents and Processes
- Center for Integrated Space Weather Modeling
- Center on Materials and Devices for Information Technology Research
- Center for Sustainability of Semi-Arid Hydrology and Riparian Areas
- Nanobiotechnology Center

This program was designed to bring participating STCs together in their efforts to recruit undergraduates for summer research. This network has allowed us to increase our effectiveness of diversity recruitment and has also allowed us to collaborate on other joint effort projects. Program website: [www.nsfstc.org](http://www.nsfstc.org)

