Calvinballacks: Grand Rapide Hackathon
February 8th & 9th
Calvin College is hosting the first ever Calvinballacks! This is a 24-hour coding hackathon, so bring your friends, make a team, and hack up something cool! Registration is free and food is provided throughout the whole event. Local companies will be present for networking and tech talks. Prizes will be awarded to the best creations. Register here: https://calvinballacks.com

ECE Department at UC Santa Cruz
Now Accepting MS and PhD Applications for 2019!
The Department of Electrical and Computer Engineering at the University of California, Santa Cruz is offering MS and PhD programs that may be of interest to you, as you look forward to your graduate studies.
Our graduate programs offer four core tracks from which students can choose:
• Electronic Circuits and Energy Systems
• Photonics and Electronic Devices
• Robotics, Controls, and Cyber-Physical Systems
• Signals, Image Processing, and Communications
Our MS program can be completed in one year, and UCSC was ranked 13th on Business Insider’s list of “The 20 universities that are most likely to land you a job in Silicon Valley.”

Our PhD students work with some of the top researchers in their respective fields. UCSC was ranked 3rd worldwide for research influence in 2017 by Times Higher Education.
The application deadline for the PhD program is January 10, 2019.
The application deadline for the MS program is February 1, 2019.
These short videos will introduce you to some of our excellent faculty, and to some of the research that we do at UCSC.
Cyber-Physical Systems: https://youtu.be/YXvAvMkVILY
Bioelectronic and Bioprosthetic Devices: https://youtu.be/KHRw5gBGggs
Applied Optics and Optofluidics: https://youtu.be/JoDAgD4H

Honda Mobility Hackathon on January 18-19, 2019
Honda invites you to join the Honda Mobility Hackathon this January! The event will feature great prizes ($5,550 total) and you will have the chance to explore career opportunities with Honda’s R&D and work with real-life like autonomous driving data sets.
Why should you join?
• Even if you don’t have a team, applying as an individual is encouraged
• You can win up to $2,000 in prizes plus other cool giveaways
• Listen to and chat with exclusive guest speakers about industry use cases
• Free meals, snacks, and rooms for your enjoyment and energy
• 24-hour access to activities, games and other fun engagement opportunities.
What else do you need to know?
• Hack Venue: Anti-Mini Spaw
• 24 Hour Hack – from 8pm to 8am
• Gas gift cards available to eligible students
Sounds great, doesn’t it? Then don’t wait any longer and apply now under www.HondaMobilityHacks.com

Winter 2019 Course Announcement
NERS 590-001: Advanced Design of Low-Noise and Low-Power Analog Circuits
Course Details:
NERS 590-001
Friday. 1-4pm
Codex 2018
2 credits
Open to students of all levels in NERS, Physics, and ECEG.
Advisory Pre-requisite: A course on analog circuits.
Course Description: This course focuses on the design of low-noise and low-power circuits in CMOS for the readout of signals from sensors with particular attention to capacitive sensors. The student will learn fundamental and state-of-the-art techniques for low-noise amplification and analog processing. Circuits include low-noise voltage amplifiers and charge pre-amplifiers, op-amps, source-follower circuits, feedback precision discriminators, peak-amplitude detectors, timing discriminators, counters, and pulse-pickup circuits. The application of the acquired knowledge is relatively broad, ranging from biomedical instruments to security and safety systems, industrial process and physics research. A project will be assigned where students will be asked to design a basic front-end circuit from transistor level to a partial analog layout/physical layout. At the end of the course the student will own a solid background and the knowledge required to design front-end and low-power front-end amplifiers and high-resolution analog and mixed-signal processing circuits.

2019 CUT Undergraduate Fellowship Program
The Consortium for Verification Technology (CVT) is currently accepting applications for past summer undergraduate fellowship opportunities. Visit our website for more information and to apply!

This information is not an intent of the individual selected for any programs. These opportunities are not officially affiliated with the school undergraduate advising office.