Capstone Senior Project Day
CS & ECE 189A/B and ECE 188A/B
June 5 (Thu) • 10:00am-3:00pm
Engineering Science Building & Courtyard (ESB)

Morning (10-12:00): ECE 189 in ESB 1001 | CS 189 in ESB 2001 | ECE 188 in the ESB Courtyard

Posters & Free Pizza / Cake Lunch (noon to 1:00pm): Engineering Science (ESB) Courtyard

Afternoon (1:00-3:00p): CS 189 in ESB 1001 (1:00-3:00) | ECE 188 in the ESB Courtyard (1:00-2:30)

ECE 189 A/B (ESB 1001) – Instructor: John Johnson

MORNING SESSION (ESB 1001) - 10:00 to Noon

- **10:00am — Opening Remarks**
- **10:15am — AutoPonix**: an automated water quality monitor and adjustment system for the maintenance of an aquaponics system. *Team*: Greg Swanson (leader), Ludim Castillo, Ryan Born, Manuel Perez, Alex King
- **10:45am — Fridgenius**: allows users to keep track of the food in their refrigerator and suggests recipes. *Team*: Jonathan Calderon (leader), Brandon Ray, Jayme Lee, Kyle Ingram
- **11:15 — ReMutt Control**: a remote pet feeding system operated through a simple Android application. *Team*: Steven Guan (leader), Eric Brunnett, Daniel Kwak, Joon Hee Lee, Alex Chepilev

CS 189A/B (ESB 2001 & 1001) – Instructor: C. Krintz (A), T. Sherwood (B)

MORNING SESSION (ESB 2001) - 10:00 to Noon

- **10:00am — Let My People Code**: smartphone-controlled robots w/ interesting demos, such as indoor positioning, autonomous movement, and control over the internet. *Team*: A. Ehrlich (lead), D. Imberman, M. Carmeli, C. Nelson, A. Sarraf
- **10:30am — Team Vibrant:** a platform for leasers to post their property and for renters to find their ideal home. *Team*: S. Mao (lead), J. Horsley, T. Washburn, A. Tan, A. Alameda
- **11:00am — Warp 5**: a tool that allows anyone who has a Magento web store to quickly create a functional, beautiful mobile store and customize it without coding. *Team*: A. Riofrio (lead), M. Sedano, N. Marks, D. Retta, D. Carlson
- **11:30am — NP-Complete**: a platform to enable users to broadcast video peer-to-peer, using minimal centralized server resources, and only their web browser. *Team*: D. Vicory (lead), N. Theokari, O. Masri, J. Medina, J. Liang

AFTERNOON SESSION - (ESB 1001) - 1:00 to 3:00

- **1:00pm — The Capstoners**: a recruiting SaaS application used to simultaneously manage multiple applicants as they progress through stages of an OnBoarding process. *Team*: L. Yafuso (lead), R. Waite, D. Tea, J. Avis, D. Cordero
- **1:30pm — Ringbase**: a real-time ad-hoc call center for smaller companies. *Team*: P. Cruz (lead), A. Berls, N. Mudaliar, S. Shaikh, A. Wood
- **2:00pm — String Cheese**: a UAV capable of surveying a farmer's field that detects environmental hazards in order to fix them before they harm the crop or the environment. *Team*: A. Huitric (lead), EJ Fernandes, D. Hascall, J. Worden
- **2:30pm — The Garbage Collectors**: a web and mobile application that is designed to simplify the input of sales leads during a conference. *Team*: A. Lee (lead), T. Chanpuelksda, E. Cojulun, J. Phang, B. Newman

ECE 188 A/B (ESB Courtyard) – Instructor: Ilan Ben-Yaacov

MORNING SESSION (ESB Courtyard) - 10:00 to Noon

- **10:00 — CuraMat**: Pressure Detection for a Medical Environment. Sven Knauth, David Kuharski, Elliot Lanphar, Scott Myers
- **10:25 — Viztic**: Photoacoustic Phased Array. *Team* - Carl Felton, Daeseong Kim, Andrew Williams
- **10:55 — EDISCO**: Test Data Visualization and Analysis Tool. *Team* - Matthew Nero & Jay Shan
- **11:20 — DLG Mazer**: The Next Generation Party Game. *Team* - Timothy Fong, John Hausle, Shujian (Gilbert) Li

AFTERNOON SESSION (ESB Courtyard) - 1:00 to 3:00

- **1:00 — IR Scout**: Scouting Hazardous Environments Thermal Imaging. *Team* - Josh Kay, Azim Muqtadir, Ryan Stevenson
- **1:25 — NoctIR**: Infrared Night Vision For Your Car, On Your Phone. *Team*- Robert Abbott, Westley Anastasio, Patrick Zhao
- **1:55 — Hexray**: Portable Subsurface Microwave Imaging. *Team* - Weston Alameida, Dominic Peralta, Sean Smith