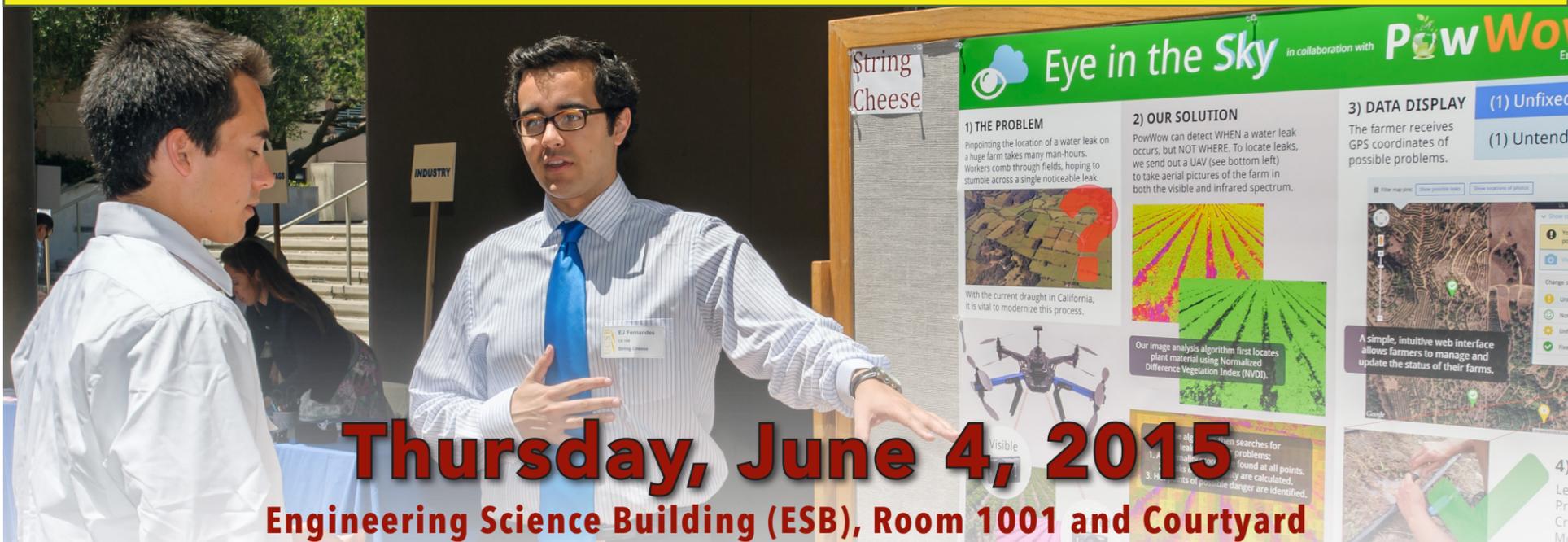


# CS and ECE Capstone Projects Presentations & Poster / Pizza Session

ECE 189 | CS 189 | ECE 188



## Thursday, June 4, 2015

Engineering Science Building (ESB), Room 1001 and Courtyard

Morning: ECE 189 in ESB 1001 (9:30-11:00) | CS 189 in ESB 1001 (11:00-12:00) | ECE 188 in the ESB Courtyard (10:00-12:00)

Posters & Free Pizza (Noon to 1:00pm): Engineering Science (ESB) Courtyard

Afternoon: (1:00-4:30): CS 189 in ESB 1001

2015 Best Project Award Presentations: ECE 189 & ECE 188 @ 1:00pm | CS 189 @ 4:30pm

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

MORNING SESSION ONLY — 9:30am to 11:00am

- 9:30am — Opening Remarks: Dr. John Johnson, Instructor
- 9:45am — **InfiniTable**: an interactive, multifunctional table made up of individual tiles that users can connect in any configuration  
Team: William Miller, Sarah Pilkington, Charles Crain, Isaac Flores, Brian Phan
- 10:20am — **Open Sesame**: a portable door security accessory that can unlock doors remotely with WiFi via an Android or iOS app  
Team: Eric Taba, Grant Apodaca, Jeffrey Bolin, Richie Agpaoa, Evin Sellin

POSTERS & PIZZA LUNCH in the ESB Courtyard — 12:00pm to 1:00pm

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

MORNING SESSION ONLY — 10:00am to Noon

- 10:00am — **FreshBox**: a fresh take on the age old problem of (not so) dirty clothes  
Sponsor: Dr. Aaron Rowe / Team: Henry Huang, Amir Khazaieli, Ernesto Ortiz, Yunwei Zhou
- 10:25am — **Hummingbird**: Stabilized Gimbal for Drone  
Sponsor: FLIR Systems / Team: Tal Bernard, Vincent Komala, Victor Wu, Patrick Yin
- 10:55am — **inferno**: Wireless Hands-Free Thermal Imager for Fire fighting / Search & Rescue  
Sponsor: FLIR Systems / Team: Jason Farkas, Sullivan Morsa, Sean Tauber
- 11:20am — **SONEST**: Speaker Reliability Test System  
Sponsor: Sonos / Team: Tyler Bellenfant, Connor Lamon, Nathan Pike

POSTERS & PIZZA LUNCH in the ESB Courtyard — 12:00pm to 1:00pm

### CS 189A/B (ESB 1001) – Instructor: Chandra Krintz (A), Tim Sherwood (B)

MORNING SESSION — 11:00am to Noon

- **MapFolio**: mobile app that maps indoor spaces  
Sponsor: Appfolio / Team: Kazbek Seilkahanov (lead), Sidney Rhoads, Crystal Cheung, Tom Craig, Michael Qiu
- **Moose Blazers**: showcase low power, high performance characteristics of using GPGPU acceleration compared to a serial processing CPU in computer vision applications  
Sponsor: Aerospace / Team: Jordan Pringle (lead), Melissa Anewalt, Scott Walstead, Peter Gaede

POSTERS & PIZZA LUNCH in the ESB Courtyard — 12:00pm to 1:00pm

AFTERNOON SESSION (Part 1) — 1:00pm to 2:50pm

- **Struct By Lightning**: smart assistant integrated with video conferencing that observes the stream and provides real-time assistance and info  
Sponsor: Citrix / Team: Trevor Frese (lead), Evan Crook, Britt Christy, Kevin Malta
- **The Sixth Sensor**: a multi-wavelength camera that allows users to capture image stacks, review images, and store files on a cloud-system  
Sponsor: FLIR / Team: Jocelyn Ramirez (lead), Jonnathan Terry, Javier Hernandez, Chris Inderwiesche, Yu-Cheol Shin
- **Treadsetters**: connect a bike to the Internet of Things  
Sponsor: Qualcomm / Team: Saili Rajee (lead), Duncan Sommer, Oliver Townsend, Joel Dick, George Karcher
- **NovaToast**: a home detection system using a Lepton camera and thermal images  
Sponsor: Novacoast / Team: William Chen (lead), Brian Wan, Jacob Anderson, Jonathan Simozar, Christopher Kim
- **Mercury Squad**: gather data, find meaningful correlations and potential causality, and visualize it in readable graphics  
Sponsor: HG Data / Team: Sean Spearman (lead), Aimee Galang, Cody Brown, Ray Smets, Tim Shen

COFFEE & SNACKS BREAK — 2:50pm to 3:00pm

AFTERNOON SESSION (Part 2) — 3:00pm to 4:30pm

- **Team Voice++**: personal assistant for mobile devices that listens for voice commands and lets users perform usually difficult tasks during a phone call  
Sponsor: Invoca / Team: Petros Khachatryan (lead), Chris Atanasian, Julio Garcia, Belsin Barkhosir, Sheng Zheng
- **Savvy-gnon**: an application that enables farmers to monitor their crops using near-infrared imaging  
Sponsor: VineRangers / Team: Rick Waltman (lead), Iris Moridis, Ariel Xin, Amy Chen, Chien Wang
- **Team Enigma**: a mobile application for customers to find and match a range of products  
Sponsor: Raytheon / Team: Blake Husserl (lead), Rafal Wojciak, Jose Vasquez, Metehan Ozten, Ahmad Bayonis

Thanks to Citrix for the generous support of the pizza lunch at the poster session!

[www.ce.ucsb.edu/capstone/capstone-2015/](http://www.ce.ucsb.edu/capstone/capstone-2015/)