

Capstone Senior Project Presentation Day Thursday, June 7th, 2012

Computer Science 189A/B

Engineering Science Building (ESB), Room 1001 — 9:00a-12:00p

- Team NULL (9:00): tool to determine if an App found in the App store is malicious. Team: Yulia Dubinina (lead), Jasper Fredrickson, TJ Koblentz, Victor Moreira
- . AIR Games (9:30): Augmented Interactive Reality Games design a suite of games using the Qualcomm Augmented Reality SDK.

Team: Nataly Moreno (lead), Spencer Bolton, Sean Chen, Erik Villegas

- . Kinect2VR (10:00); combine the 3D capabilities of WorldViz's head mounted display (HMD) with the motion capture technology of the Kinect to create a virtual environment. Team: Jon Chu (lead), Andre Abrahamian, Matthew Garcia, Alex Hsu
- . We'reTheBest (10:30): development of a large-scale data comparison widget for users to embed onto their websites.

Team: Dillon Kearns (lead), Roger Chang, Joni Rae Lopez, Cindy Lu, Josh Van Blake

- Team RDRE (11:00): speeding up of image processing techniques, specifically image re-targeting by transferring the complex computation done on the CPU to the GPU. Team: Roger Ngo (lead), Derek Ho, Robert Hsu, Evan Goad
- . KC (11:30): autonomous system consisting of the Microsoft Kinect mounted on a mobile robotics platform.

Team: Kenneth Bedolla (lead), Andres Barajas, Roy Handelsman, Lane Meier

Electrical and Computer Engineering 188A/B

Engineering Science Building (ESB), Room 2001 — 9:00a-12:00p

VirtualU (9:00-9:30): 3D modeling using 4 Microsoft Kinect sensors for use in a virtual

Team: Brandon Gomez, Jon Waltman, Jay Wright

- ICARUS Spectral Characterization System (9:30-10:00): robust tool for collecting angularly resolved spectral power density measurements of light sources Team: David Cosenza, Seth Danielson, Alfredo Torres
- . BrightBlu (10:00-10:30): smartphone controlled Bluetooth home automation complete with the world's first app-store for your home Team: Sidhant Bhargava, Ben Chang, Taylor Umphreys
- Android QuickDraw (10:30-11:00): android-based glucose meter Team: Laurel Hopkins, Bassel Ihsan, Taishi Kato
- . PHANTIR (11:00-11:30): near-infrared imaging platform Team: Jeff Imamaru, Kevin Lee, Di Li
- flexSD (11:30-12:00): flexible sigma delta remote signal processing platform Team: Alec Dibble, Daniel Kouba

Electrical & Computer Engineering 189A/B

Engineering Science Building (ESB), Room 1001 — 1:15p-4:00p

- . AURCA Advanced Universal R/C Aircraft (1:15): model airplane with GPS, gyros, and remote interface that allows a computer and user to fly the plane and see video. Team: Alexander Adams (leader), Michael McKeown, Ethan Preble, Sebastian
- PIP The Plug-in Player (1:45): MP3 player with SD card, LCD display, keyboard, audio decoder to expand files into sound, power supply, and speaker/headphone output. Team: Luis Rocha (leader), Mike Erez-Kdosa, Edward Gabriel, Kevin Malby
- RoboLock Remote Door Lock (2:15): device mounted to a door that can be remotely unlocked from any internet-connected device, be it a cell phone or a desktop computer. Team: Brian Dunlay (leader), Matt Brick, William Moy, Bryan Wang
- AERV A Smart Telephone Interface (2:45): programmable autodialer device that can originate a phone call, play a message, hangup and go to the next requested call. Team: Chance Carpenter (leader), Ron Bendor, Joshua Chamberlain, Rotem Raviv
- UAC Unmanned All-Terrain Camera (3:15): camera in a remote-controlled vehicle. A user can control the car and watch video from a remote location via a wireless interface.

Team: Perry Yang (leader), Changhao Huang, Baker Ngan, Danny Trinh

2012 Capstone Event Schedule ECE 188, CS 189 and ECE 189

CE 189 Capstone webpages | CE Sr. Capstone Course Overview

ECE 188 Capstone webpage | ECE 188 Course / Projects

2012 Capstone Project Event - Thursday, June 7

- Morning Session (9:00a-12:00p)
 - Computer Science: CMPSC 189A/B (ESB 1001)
- Electrical & Computer Engineering: ECE 188A/B (ESB 2001)
- Lunch Poster / Pizza Session (noon 1:00pm)
- Afternoon Session (1:15p-4:00p)
 - Electrical & Computer Engineering.: ECE 189A/B (ESB 1001)

Poster Session and Pizza Lunch (ESB Courtyard)

Free Pizza! Open to All! ... 12:00 to 1:00pm

CE extends a special thanks for their generous support:

- Citrix Online Capstone Pizza Lunch
- Qualcomm ECE 188A/B and 189A/B posters
- . Novacoast CS 189A/B posters



CITRIX online QUALCOMM NOVACOAST