

COMPUTER SCIENCE AND ENGINEERING

SENIOR PROJECTS

UNIVERSITY OF NEVADA, RENO

FRIDAY APRIL 29, 2011, 9:30 AM - 4:00 PM, HREL 109 & HREL110



9:30 am

Project 1: Ship Motion Simulator

A training simulator for manoeuvring US Navy ships

Students: Liesl Wiegand, Christian Retherford, Peter Souba, Travis Chambers

Advisors: Mr. Richard Kelly, Dr. Monica Nicolescu - UNR



10:00 am

Project 2: Autonomous Aerial Surveillance System

A self-reliant autonomous flying robot for medium-range security and surveillance

Students: Paul Olson, Kevin Chung, Veronica Ramirez

Advisors: Dr. Kostas Bekris, Dr. Dwight Egbert, Dr. Tod Colegrove - UNR



10:30 am

Project 3: GE Energy: System 1 Mobile Dashboard

A dashboard mobile application for monitoring GE machines

Students: James Arthur, Jeremy Daughhetee, Gabe Kanzelmeyer

Advisor: Mr. Ken Ceglia - General Electric



11:00 am

Project 4: Immersify

A system for immersive virtual reality game playing experience

Students: Brian Vees, Nicholas Sellers, Jake Hansen, Daniel Kinney

Advisors: Dr. Dwight Egbert, Dr. Sushil Louis - UNR

11:30 am - 1:00 pm

Posters Session and Lunch



1:00 pm

Project 5: VI Goalball

A fitness goalball exergame for the visually impaired

Students: Sasha Browning, Diana Marquez, Anne Paine

Advisors: Dr. Eelke Folmer - UNR, Mr. Tony Morelli - Bally Technologies



1:30 pm

Project 6: Dynamic Obstacle Avoidance and Localization

A Segway-based robotic platform for motion planning safety and localization

Students: David Leblanc, Zakary Littlefield, Winway Pang, Nathan Silva

Advisors: Dr. George Bebis, Dr. Kostas Bekris - UNR



2:00 pm

Project 7: Brainstem

Network middleware for distributed communication between the UNR Neocortical Simulator and a wide variety of computers and I/O devices

Students: Bryce Prescott, Kevin Cassiday, Rashid Makhmudov

Advisors: Dr. Fred Harris, Mr. Corey Thibeault - UNR



2:30 pm

Project 8: Self-Healing Software System: The Watchdog

A system that actively monitors and repairs anomalies that could arise in a network of computing devices

Students: Nick Ceglia, Steve Komarov, Abba Terobias, Eric Tilly

Advisor: Mr. Saurabh Singh - Bally Technologies



3:00 pm

Project 9: D.O.T.S. - Drone Object Tracking System

A drone-based system that tracks and follows target objects

Students: Yael Campo, Jamie Hobel, Tor Loken, Nolan Warner

Advisors: Dr. Kostas Bekris, Dr. George Bebis - UNR



3:30 pm

Project 10: Scholarly Conduct

An RTS game in which university teams compete by building their virtual campuses

Students: Chad Adams, Warren Antes, Karl Mullner, James Rowen

Advisors: Dr. Sushil Louis - UNR

4:00 pm

Concluding remarks, Dr. Sergiu Dascalu, instructor CSE Senior Projects