


The Robotics Laboratory at the
University of Central Florida presents:



An Autonomous Underwater Vehicle

About Me

- Name: Jacqueline Nelson
 - Class Standing: Senior
 - Major: Electrical Engineering
 - Interests: Autonomous Robotics, CV, RADAR, Satellite Systems
 - Future Plans: Graduate school, Department of Defense
- 

Purpose

- Compete in AUVSI and ONR's 12th International Autonomous Underwater Vehicle Competition
 - July 28th – August 2nd
 - TRANSDEC, San Diego, CA
- Learn!
 - Develop engineering teamwork skills
 - Gain “real” engineering experience

The Team

Faculty Advisor: Daniel Barber



Jonathan Mohlenhoff

- Team Leader
- Undergraduate
- Electrical Eng.



Gary Stein

- Robotics Advisor
- Graduate
- Computer Eng.



Jacqueline Nelson

- Undergraduate
- Electrical Eng.



Cassondra Puklavage

- Undergraduate
- Electrical Eng.



Michael Scherer

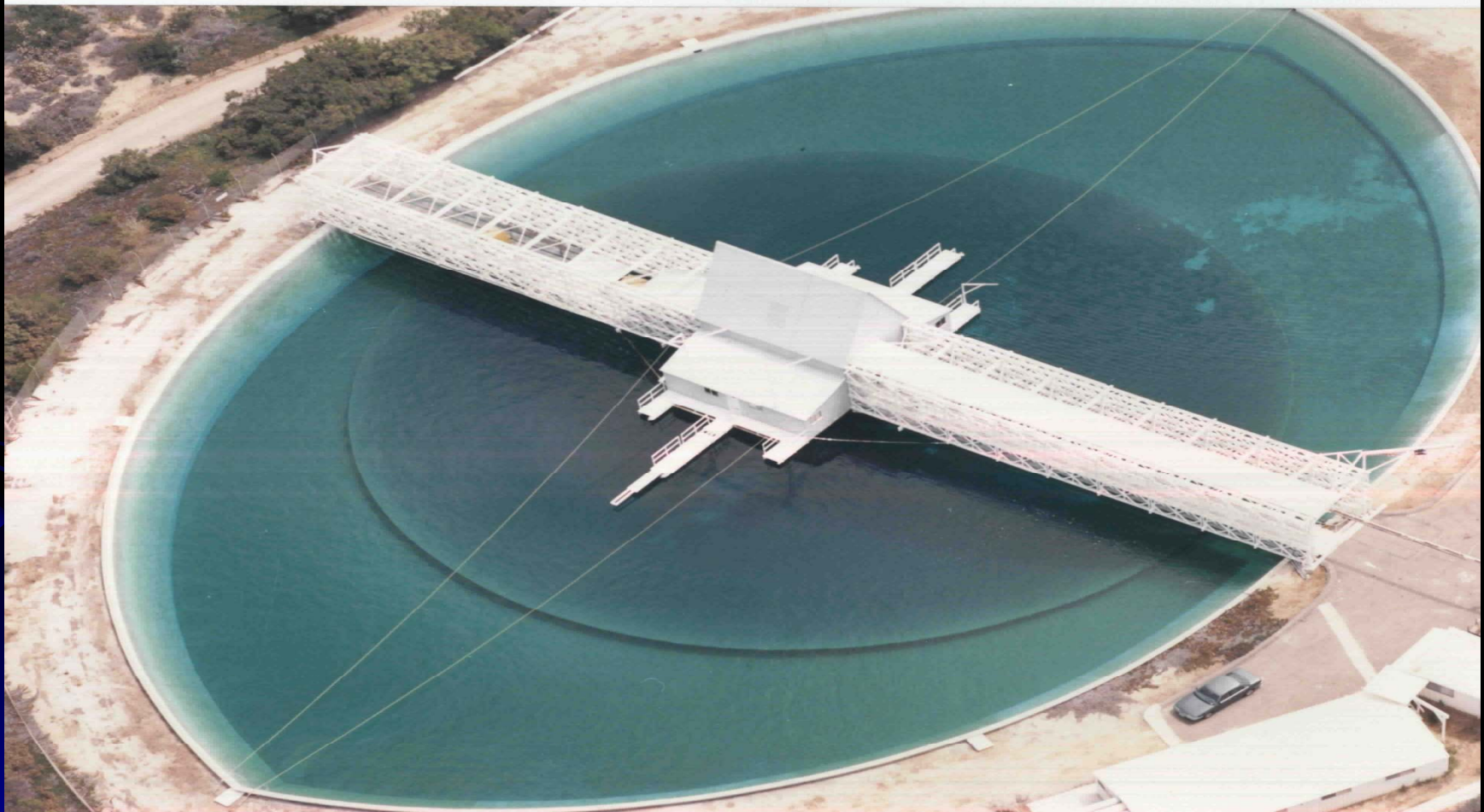
- Undergraduate
- Computer Science



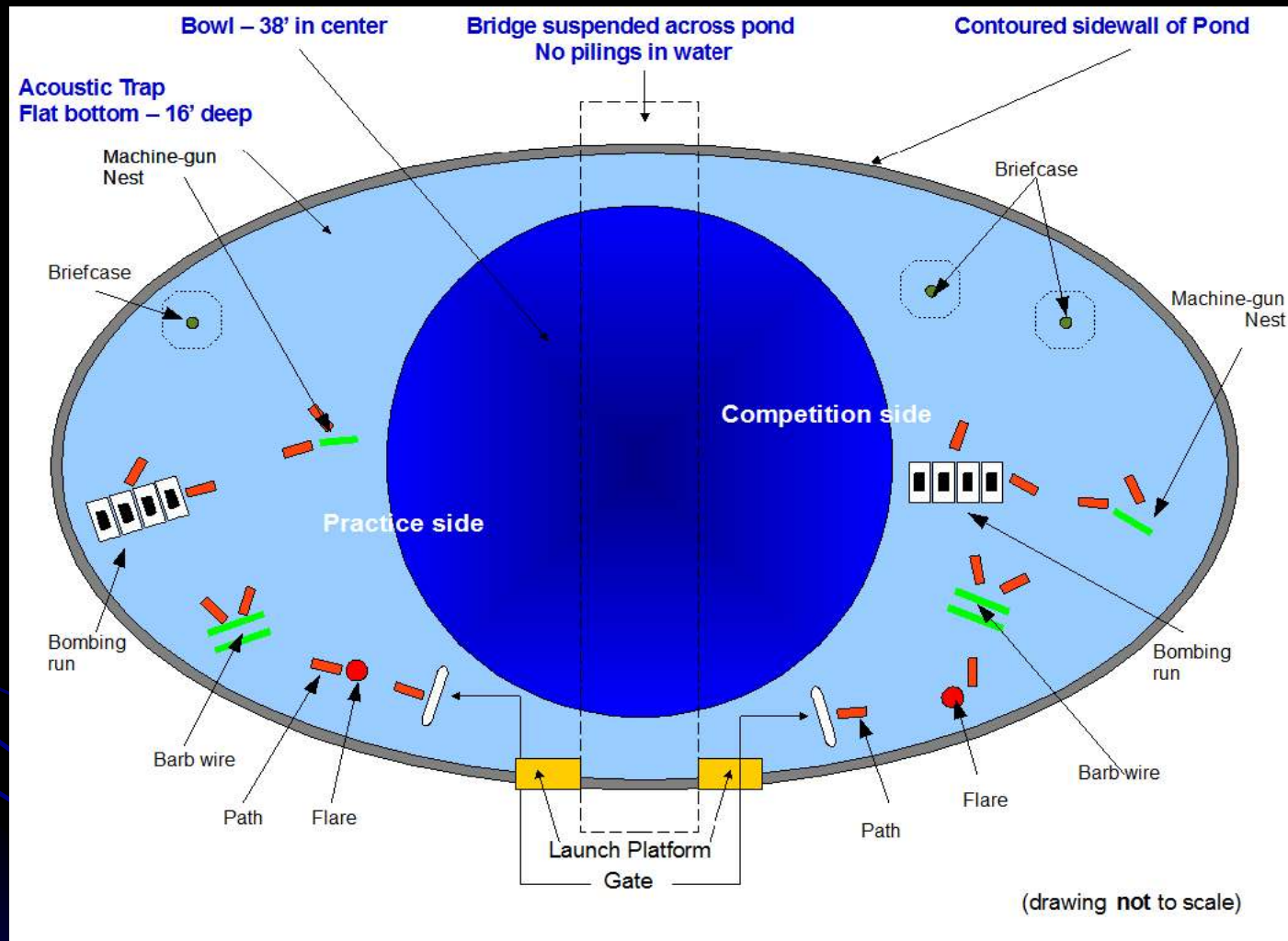
David Adams

- B.S. Degree
- Computer Science

The Site



The Competition



- Day 2 Recap Video

Image Processing Results

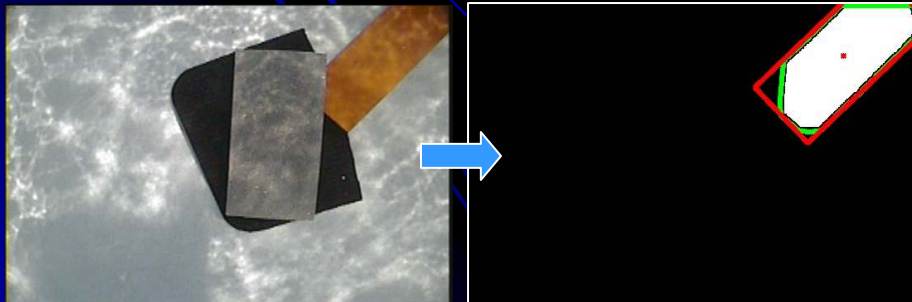
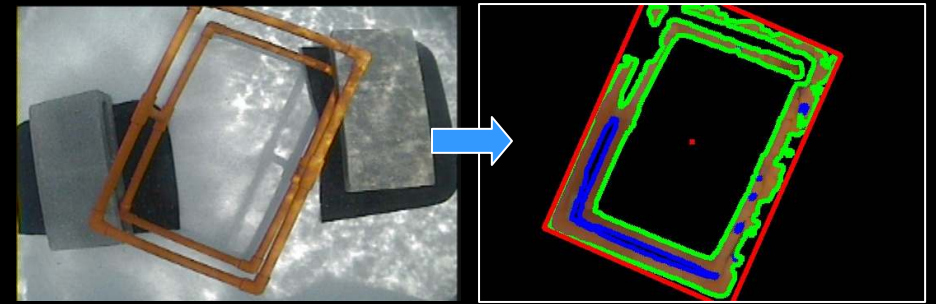
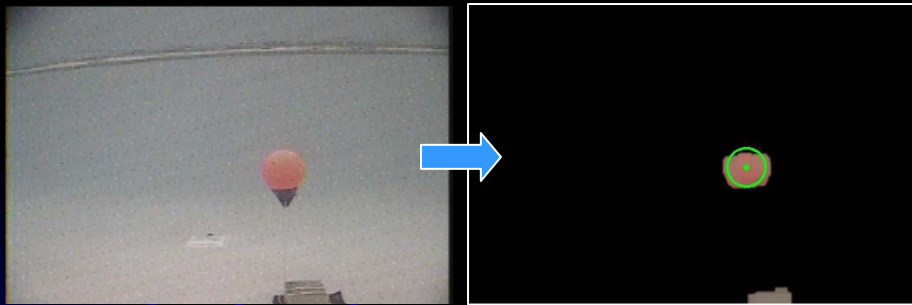
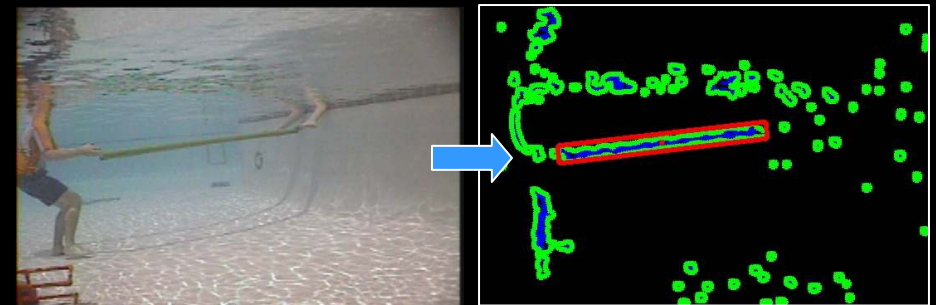
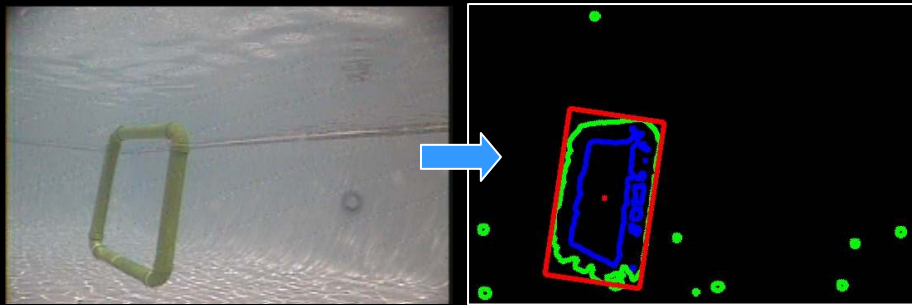
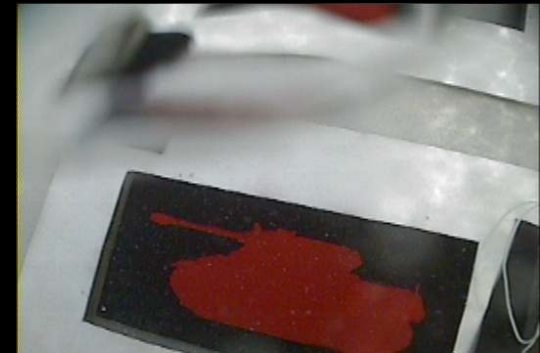
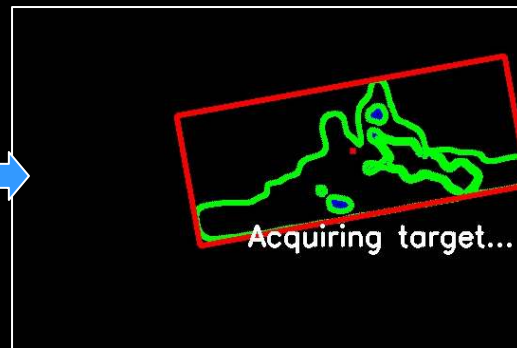
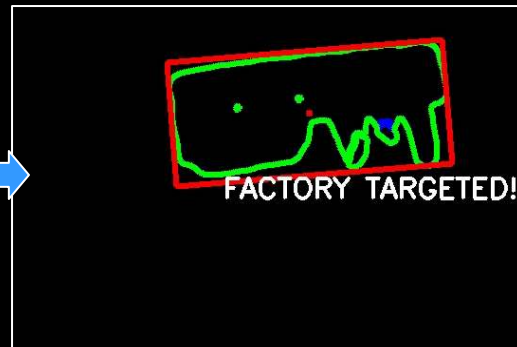
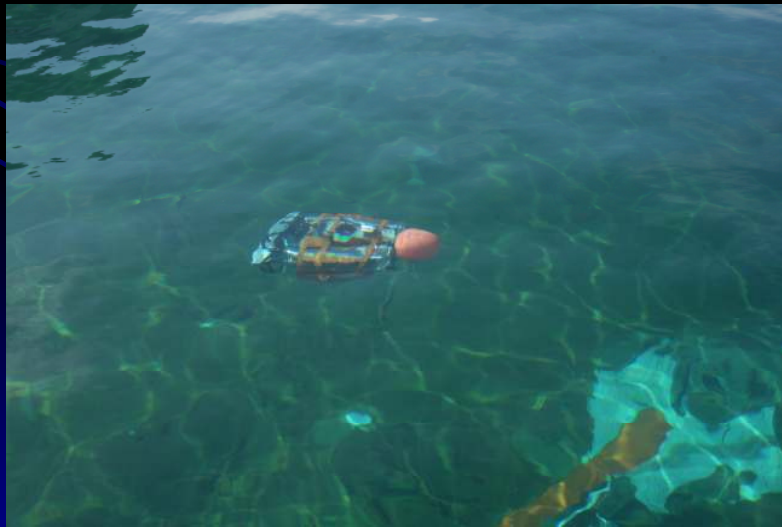
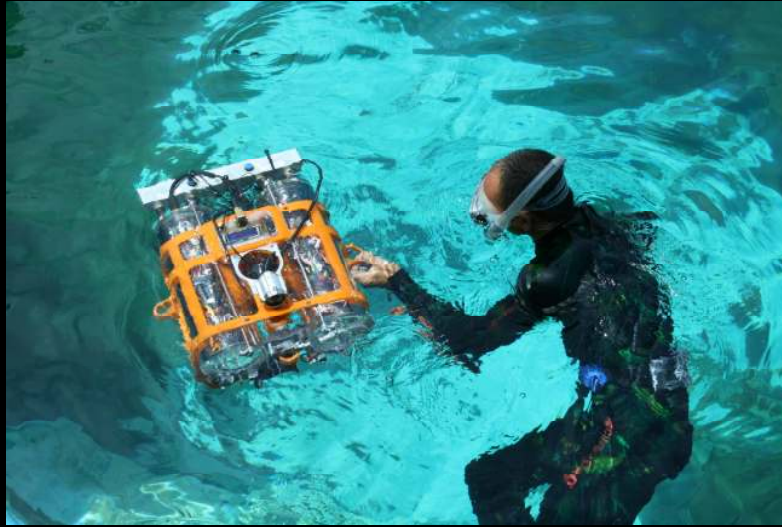


Image Processing Results cont.



Competition Images



After the Final Run



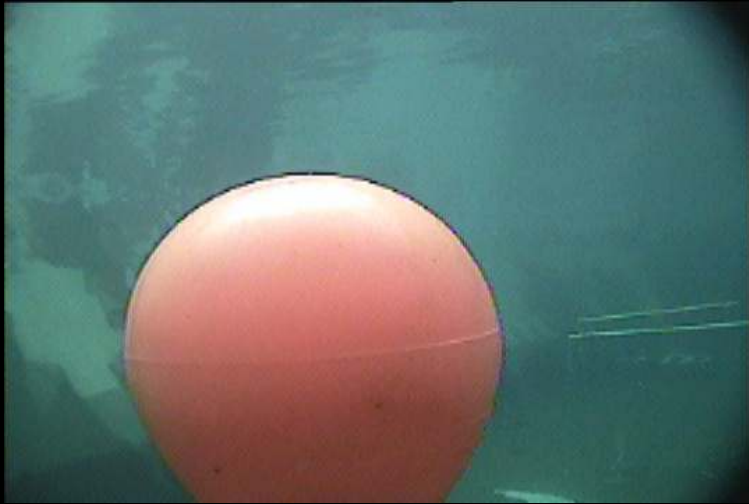
Final Standings

- 1st Place – Cornell University
- 2nd Place – University of Victoria
- 3rd Place – University of Rhode Island
- 4th Place – University of Central Florida

Problems We Faced

- Cameras!
 - Connectors, back-plane
- Bright to overcast in 5 minutes or less.
- Last minute changes before runs.
 - Depth
 - Ramming time
 - Path search depth
- Other teams had their share of problems as well.

Forward Sub Cameras



Downward Sub Cameras



Other Sub Pictures



Useful Links

- Competition:

- www.AUVSI.org

- Robotics Lab at UCF:

- www.robotics.ucf.edu

- SPAWAR/TRANSDEC:

- <http://enterprise.spawar.navy.mil/>