REU Presentation:

Week 9

Jacqueline Nelson



This Week's Progress





- Sunday's tests were successful
 - Tested Torpedo Launcher, State Machine, and our PID controller.

Team's Progress

- Two new cameras have arrived!
 - Smaller, same resolution, but they are picking up colors better than our original cameras.
- Torpedo launcher mounted and functional.
- Two new plexiglass canisters ordered.
 - Longer, to provide more room for components.
- Team website and paper complete.
- Will be doing in water testing today!
 - Will collect data from new cameras.

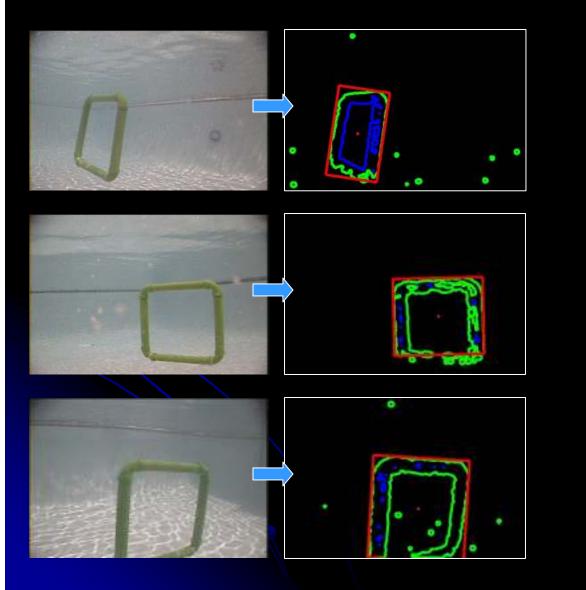
What Still Needs Work

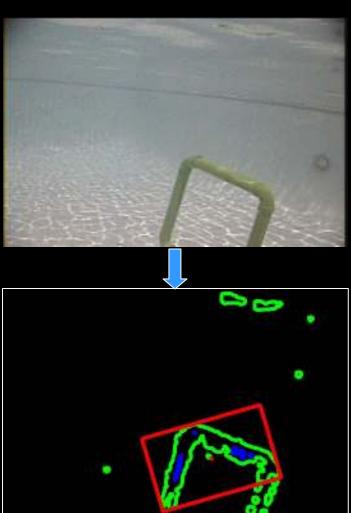
- Arm for briefcase retrieval still needs to be mounted.
- Hydrophone triangulation is being tested, but it's not quite working yet.
 - Recently received custom PCB from manufacturer.
- Integration of the rest of my code with the sub.
 - Needs to be set to return correct values called by state machine functions.

Progress

- After help from team member, I can now do box-fitting on my images
- Box-fitting can now be implemented for finding the machine gun nest
- Will soon be implemented on barbed wire and pipeline following code
- Flare code now returns more information to state machine

Machine Gun Nest





Flare



Goals for Next Week

Finish everything!

 The competition begins July 28th, so next week is the last full week before the competition

Lots of in-water testing and troubleshooting

Useful Links

- Robotics Lab at UCF:
 - www.robotics.ucf.edu
 - Click "Underwater" tab on the left side menu for the AUV's page
- Competition:
 - www.AUVSI.org
- SPAWAR/TRANSDEC:
 - http://enterprise.spawar.navy.mil/