

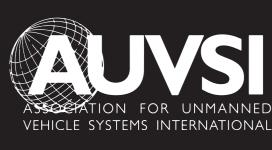


Objective

Design and implement the propulsion and control system for an Autonomous Underwater Vehicle

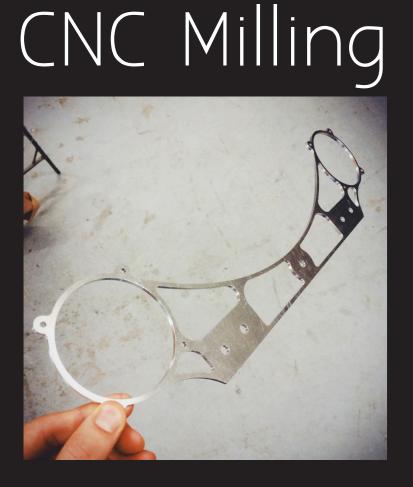
Competition





The AUVSI Foundation & ONR's 17th Annual International RoboSub Competition in San Diego, CA

Manufacturing















Conventional

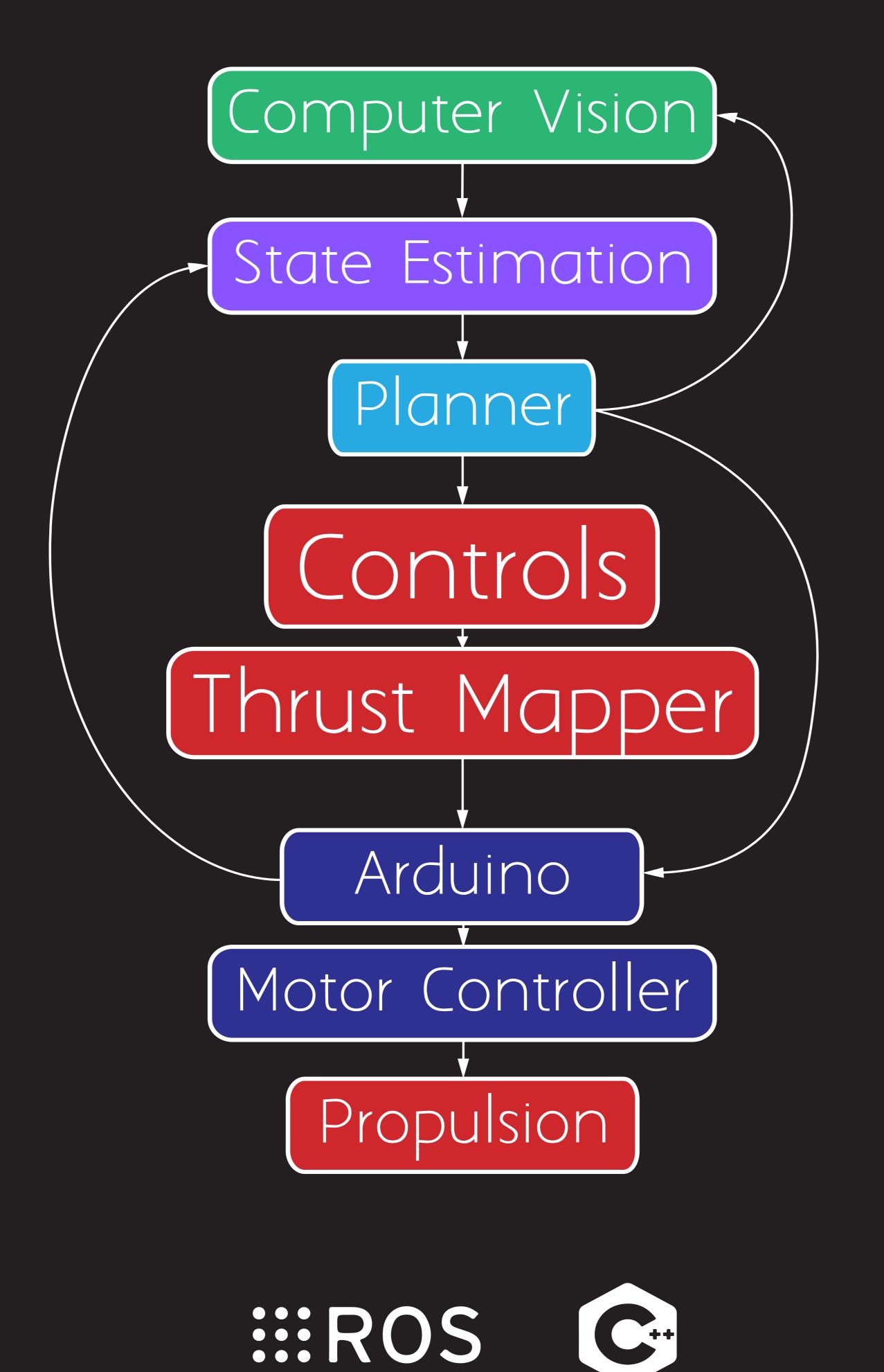


Lasercutting

The Propulsion & Control of an Autonomous Underwater Vehicle

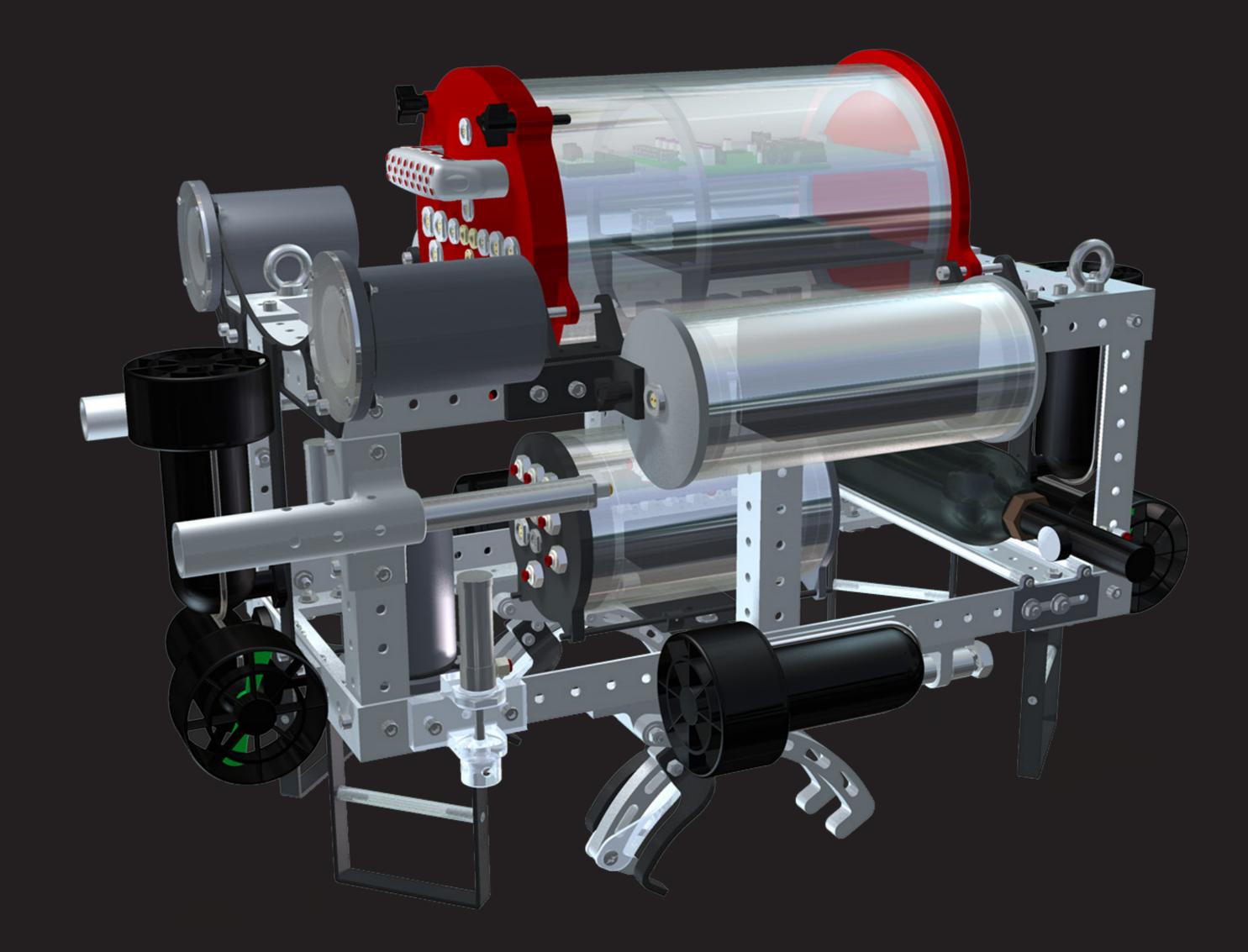
Authors: Matthew Mayers, Michael King, Nick Speal, Patrick Abouzakhm Supervisor: Professor Meyer Nahon | Client: McGill Robotics

Closed-Loop PID

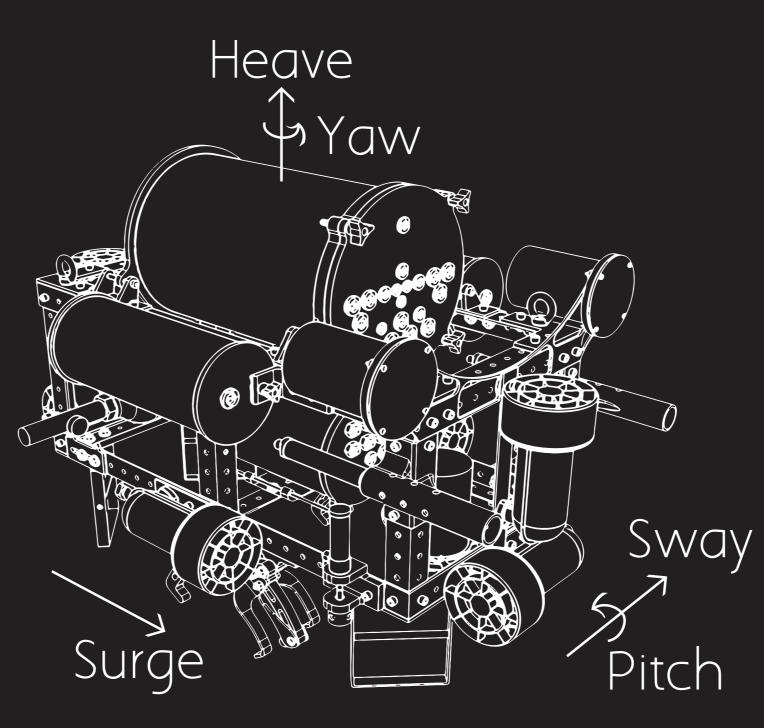




CAD Mode



5 DoF Propulsion





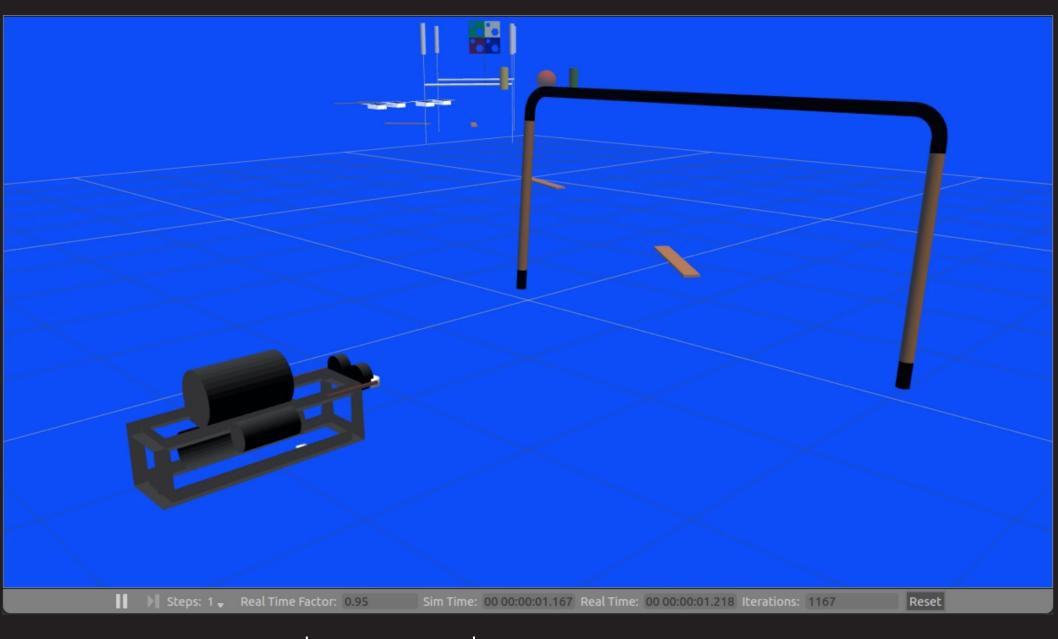






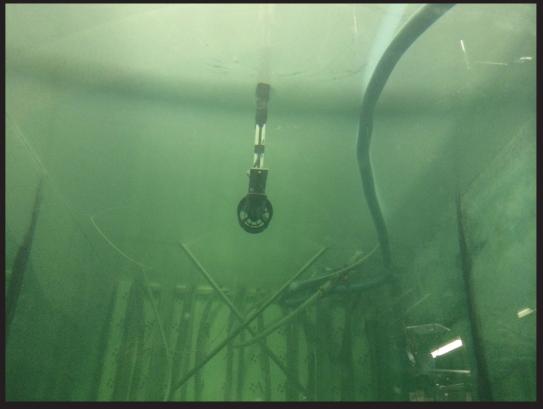
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Simulation

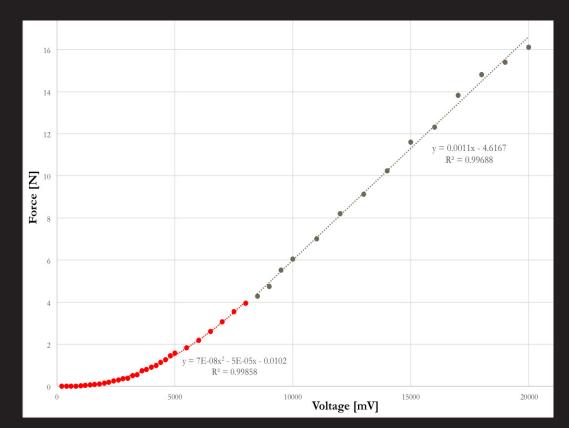


Gazebo Simulation Environment

Characterization

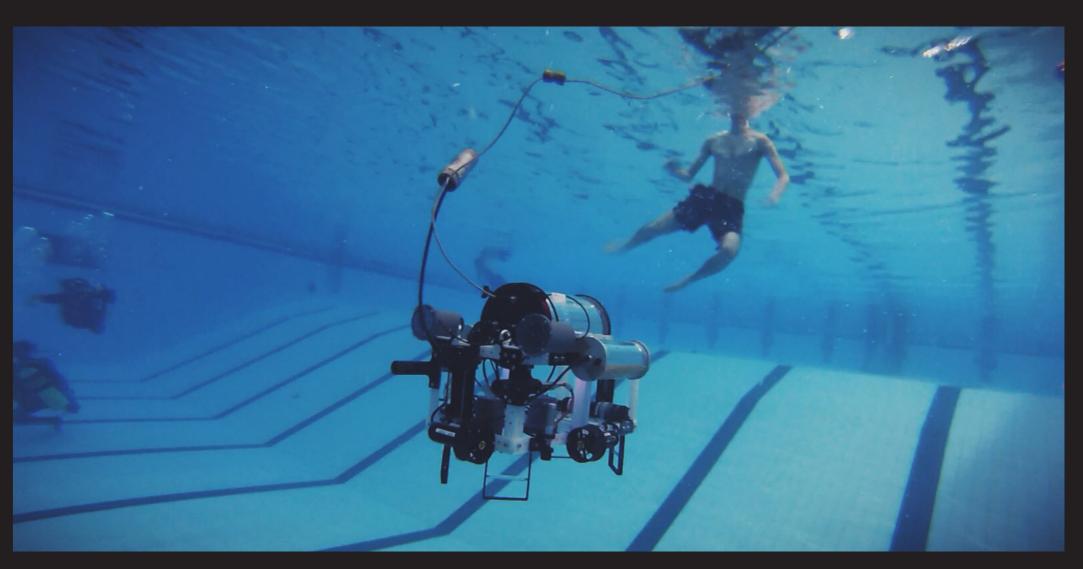


Testing Apparatus



Force v. Voltage Curve

Testing



Buoyancy & Control Test in the McGill Pool



