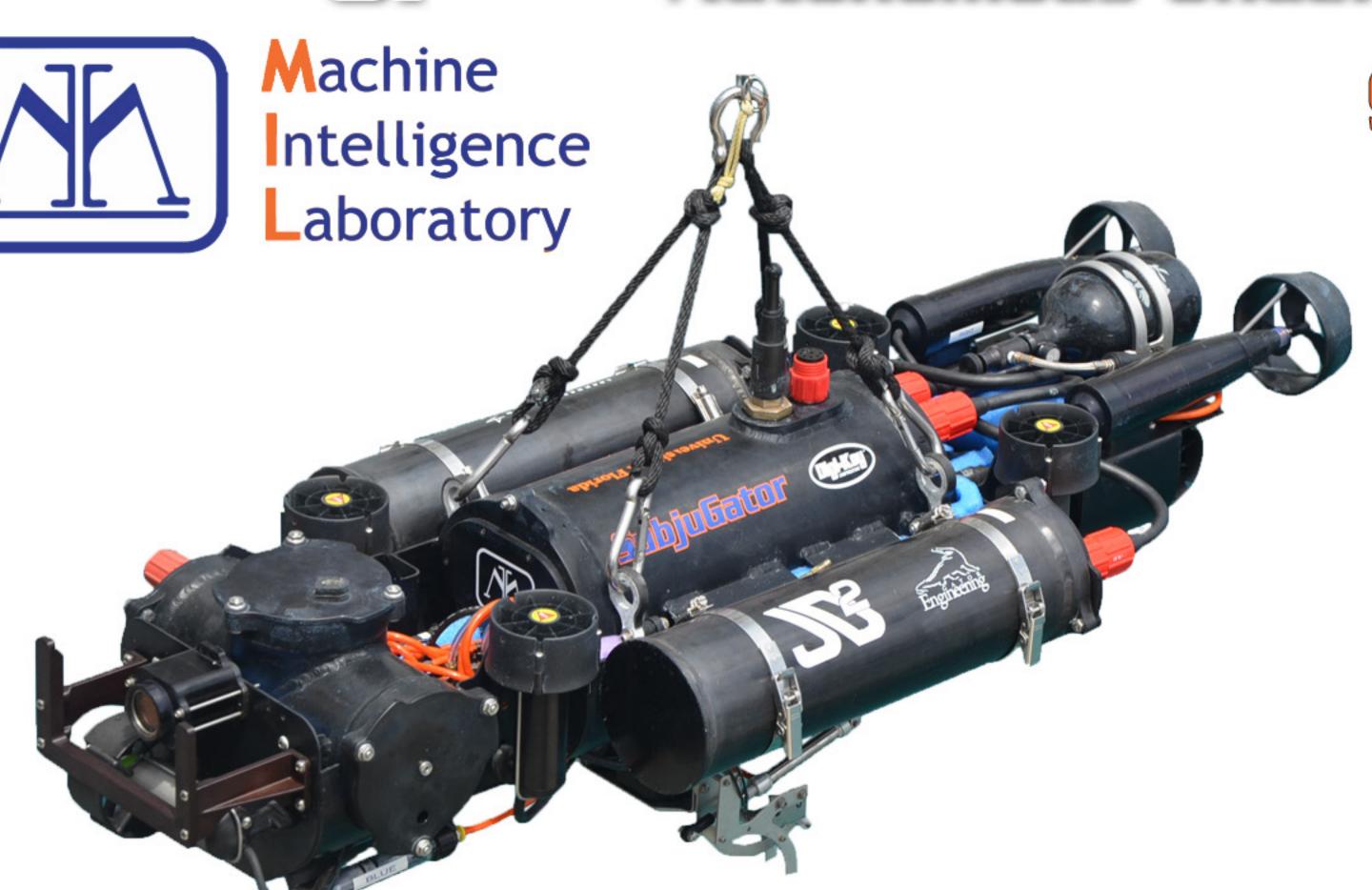
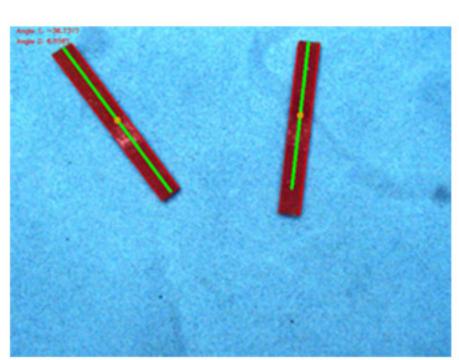
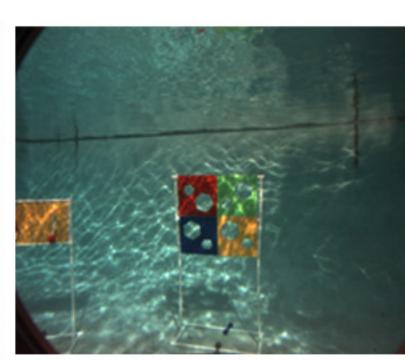
# STILL ETTE UND LINE Underwater Vehicle



Specifications:

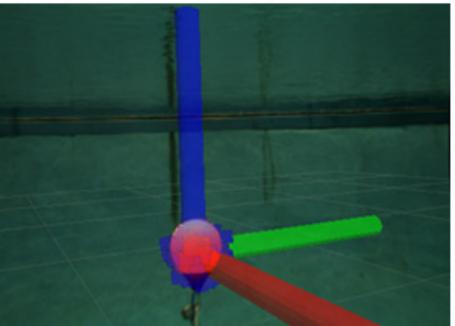
Weight: 110 lbs Size: 50" x 18" x 18" Endurance: 6 hours Depth: 150 ft Thrusters: 8

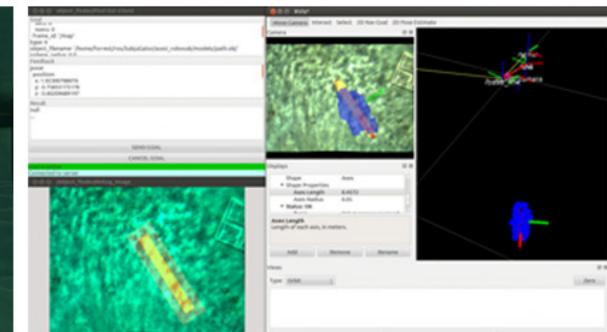




#### Software:

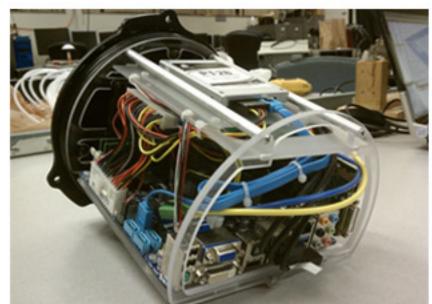
Robot Operating System (ROS) ROS SMACH based mission planner Novel particle filter vision approach Comprehensive simulation environment

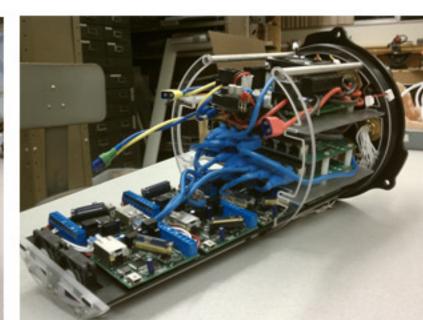




## Navigation and Control:

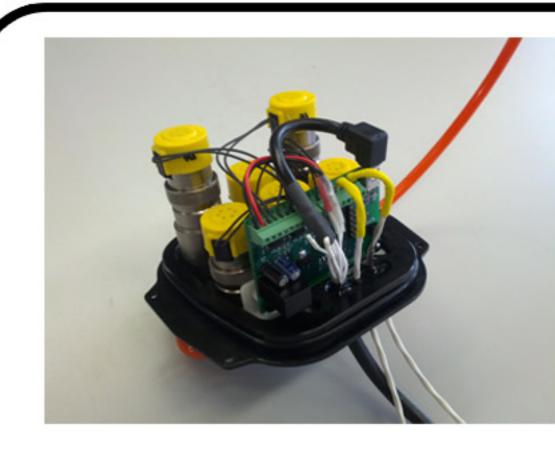
Indirect extended Kalman filter state estimation C3 continuous trajectory generator Robust nonlinear control design Fault tolerant thruster mapper Self-contained navigation and control package

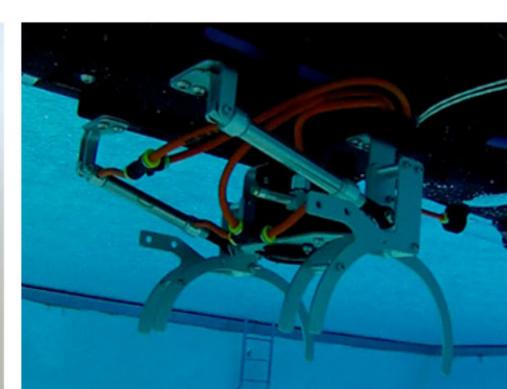




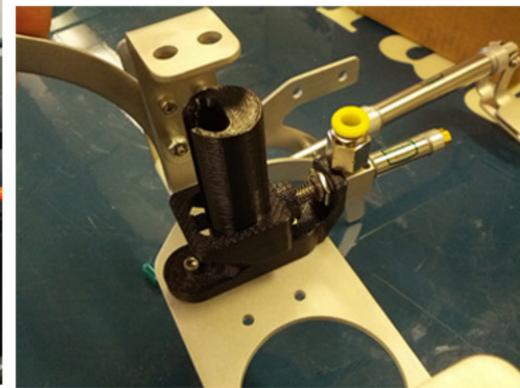


COTS Intel Xeon based computer On-board power management and monitoring Student designed motor control modules Standard Ethernet communications Hot swappable battery pods Wet-mate electrical connections









### Pneumatic Actuators:

Fast acting and reliable - Six independent channels - Student designed mechanisms

# Vehicle Testing:

Extensive pool testing Sea trials in the Gulf of Mexico





## Community Outreach:

Summer robotics camps Hands on middle school demonstrations Lab tours and community seminars







