

SubjuGator

UF Autonomous Underwater Vehicle

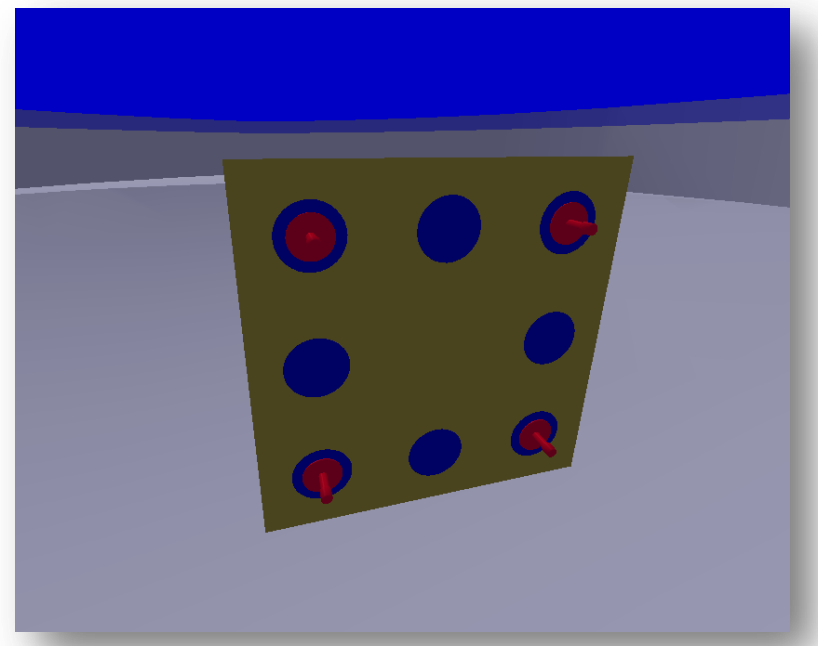
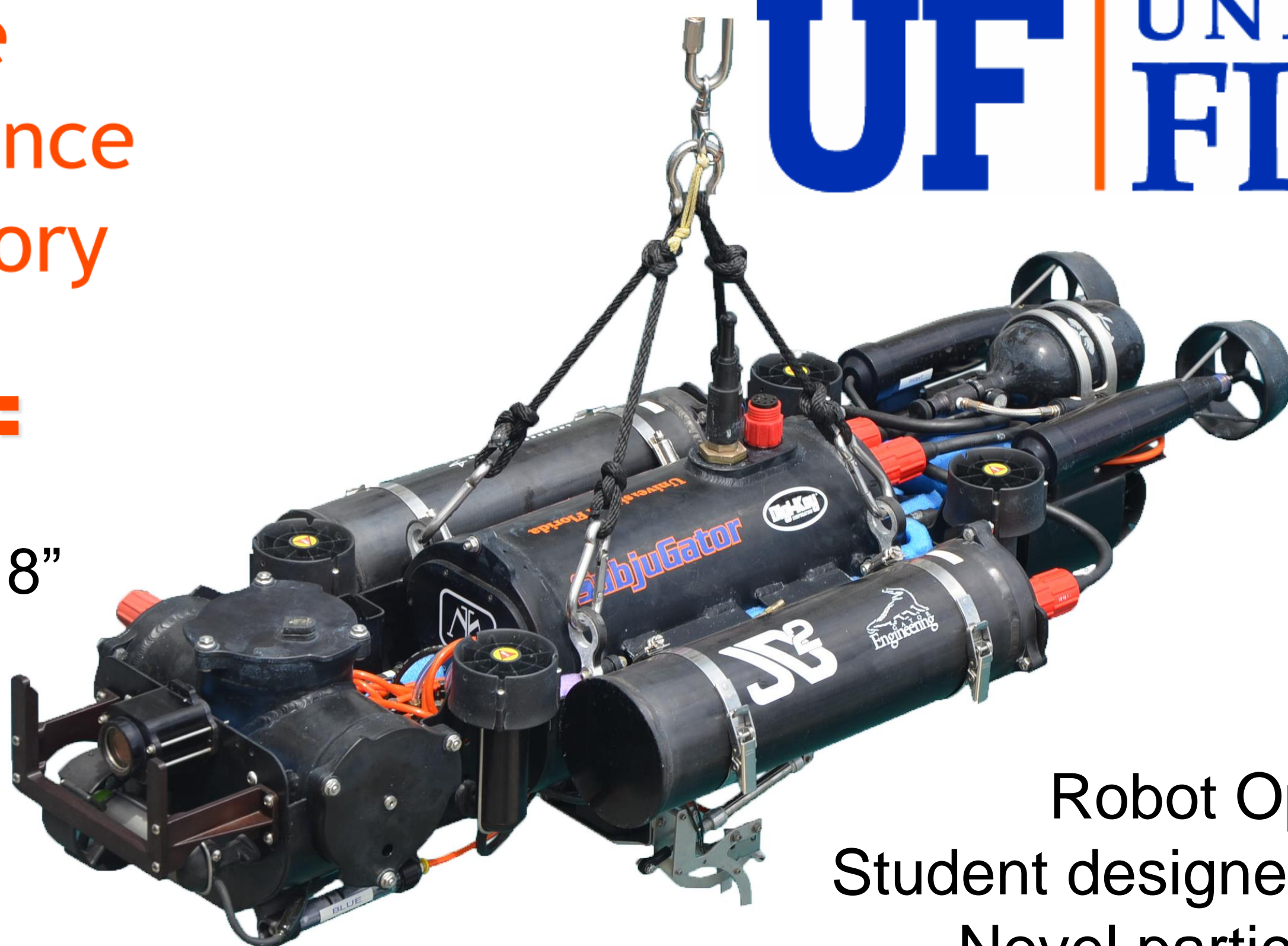


Machine
Intelligence
Laboratory

UF UNIVERSITY of
FLORIDA

Specifications:

Weight: 115lb
Dimensions: 50" x 18" x 18"
Endurance: 6 hours
Depth Rating: 150 feet

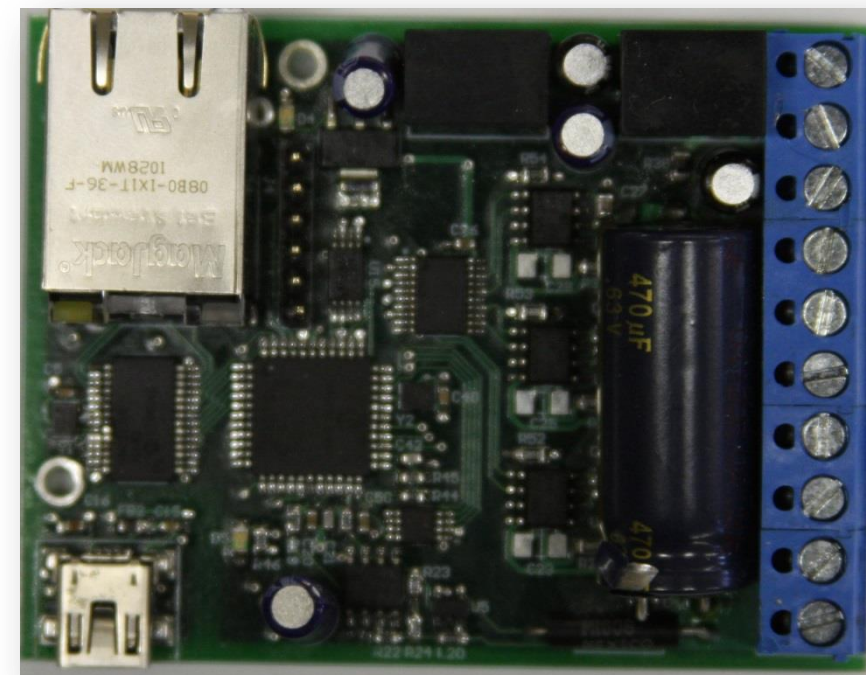
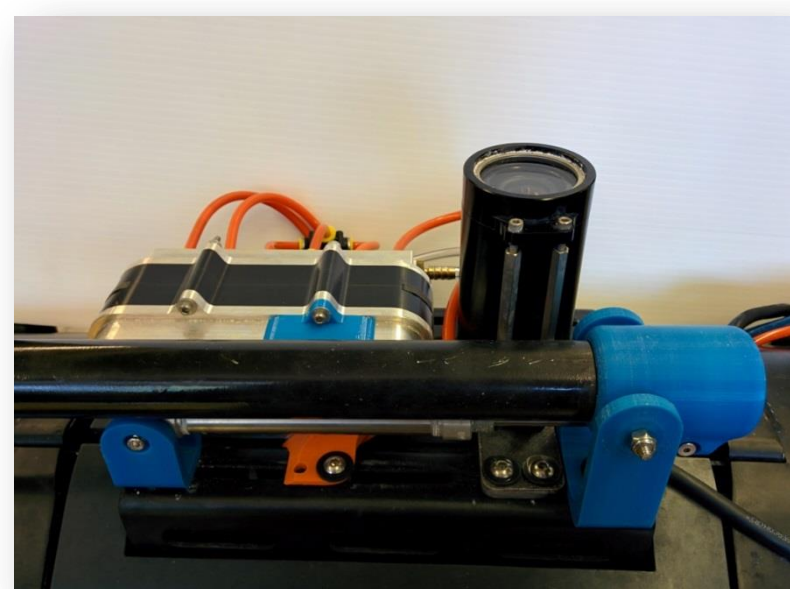
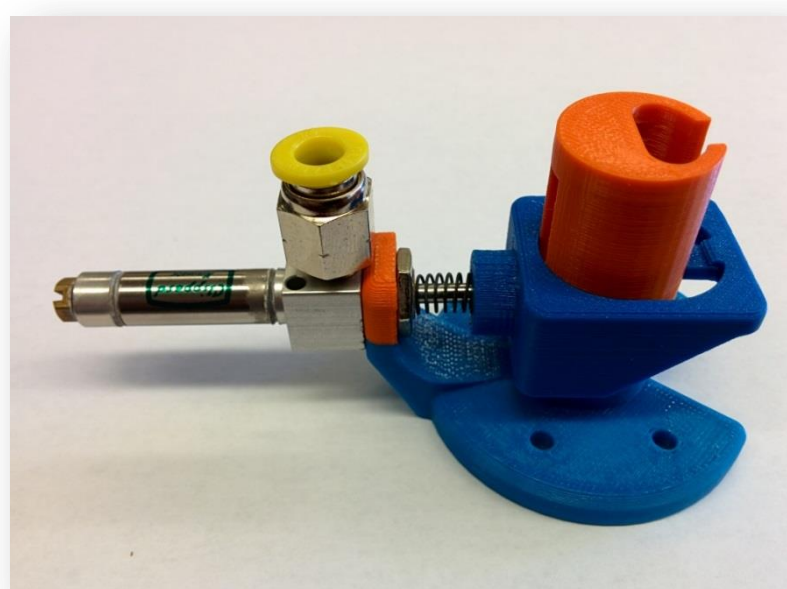


Navigation and Control:

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

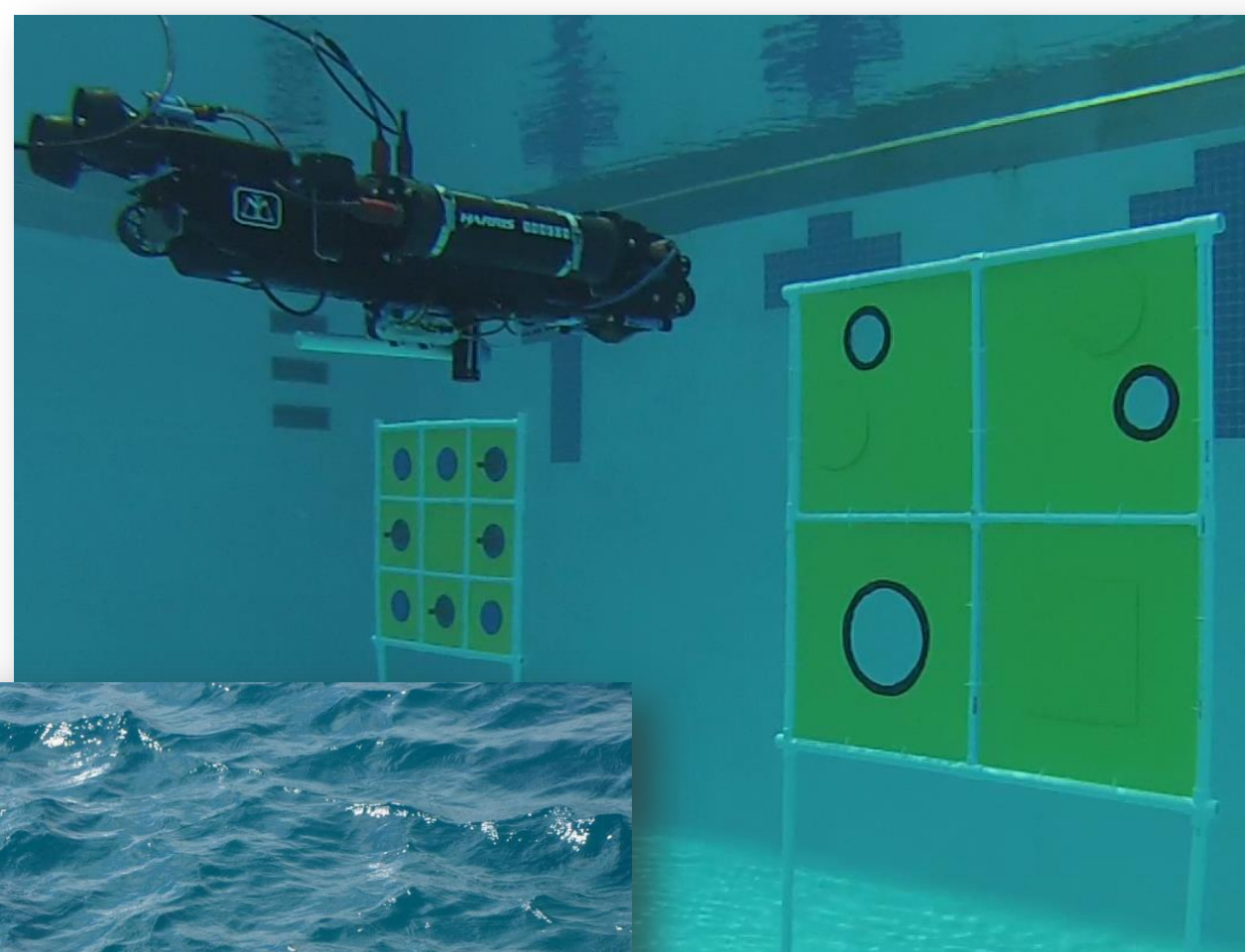
Mission Mechanisms:

Six independent channels
Student designed pneumatic mechanisms



Vehicle Testing:

Extensive pool testing
Sea trials in the Gulf of Mexico



Community Outreach:

Summer introduction to robotics camps
Museums and engineering fairs
Lab tours and community seminars

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Department of Electrical
& Computer Engineering

MAE

HARRIS

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