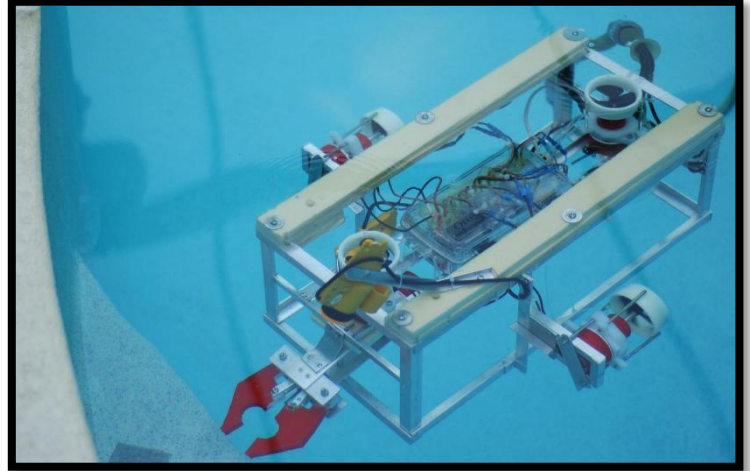
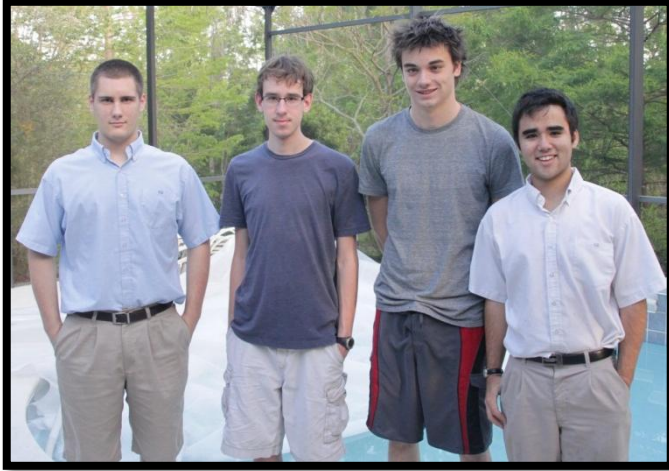


TACHYON ROBOTICS

SEMINOLE HIGH SCHOOL - THE GENEVA SCHOOL

ORLANDO, FLORIDA



Left: A photo of the members of Tachyon Robotics (left to right: Sam Knight -CFO, Evan Terry, Kieran Wilson - CEO, and Michael Ikegami-COO). Right: A photo of Tachyon Robotics' completed bid for the 2012 International MATE ROV Competition, Tachyon Mk. III.

COMPANY INFORMATION

Distance Traveled: 41 kilometers

Competition History: This year is Tachyon Robotics' third year competing in the MATE ROV competition, and their first entering at the International level. All members of Tachyon Robotics are returning as high school seniors: this is Kieran Wilson, Evan Terry, and Michael Ikegami's third year on the company and Sam Knight's second.

Company Employees:

CEO, Chief Mechanical Engineer- Kieran Wilson (Entering the University of Florida in fall, 2012)

COO, Chief Electrical Engineer- Michael Ikegami (Entering the University of Alabama in fall, 2012)

CFO, Programmer, Pilot- Sam Knight (Entering the Florida Institute of Technology in fall, 2012)

Engineer, Tether Manager- Evan Terry (Entering the University of Alabama in fall, 2012)

ROV SPECIFICATIONS

ROV Name: Tachyon Mk. III.

Total Cost: \$2470.00 USD

Primary Materials Used in Construction: T-6061 Angle Aluminum, UHMW-PE, Delrin, A400 Corcell© Foam

Approximate Dimensions:
0.71m by 0.53m by 0.44m

Mass of ROV: 5.64kg

Safety Features: 25A fuse, cutoff switch, ammeter, software lock, electrical disconnects, Rice nozzles, rounded edges, warning labels, sheathed tether.

Special Features: xBox360 controller based digital control system housed in custom designed pressure housing, manipulator, three onboard color cameras, motors with custom designed Rice nozzles to increase thrust and safety, custom-machined oil sampler, toolbox with compass, neutron backscattering device, and ultrasonic thickness gauge.