2011-2012

WATER RAPTORS





Air force Academy High School, Robotics Team 2012 Chicago, Illinois

The Water Raptors will travel 1,154.9 mi to the MATE International Competition in Orlando, Florida. This is our second year competing in the MATE ROV competition. Last year we attended the International Competition and have five returning members from that team.

CEO: George Onefre (17, Junior) **CFO**: Alicia Alvarez (16, Sophomore)

Government & Regulatory: Dionte Collins (16, Sophomore), London Westly (15, Freshman),

Research & Development: Jessica Audina (14, Freshman)

System Engineer: George Onefre (17 Junior)

Design Integration: Jeffrey Bridges-Reed (16, Junior), Christopher Odor (16, Sophomore),

Testing: Kevin Estrella (17, Junior), Carlos Ortiz (18, Junior), Christopher Odor (16, Sophomore),

Operations: Mario Rios(17, Junior), Alicia Alvarez(16, Sophomore)

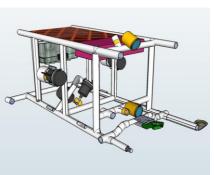
Media Outreach: Jessica Audina(14, Freshman), Ayana Cochran(15, Freshman)

Engineers: Heidi Herrera(15, Freshman), Kitty Lai(15, Freshman), John Paul Nelson(16, Junior) Moshe

Brown(15, Freshman), Louis Zarycki(14, Freshman), Isaiah Moore(15, Freshman)

ROV Model: WATER RAPTOR I

The primary materials used in the construction of the Water Raptor is PVC and love.



COST: \$2114.46 USD

ROV Dimensions: 1.0x1.0x1.0 ft (Main Frame)

Attachments: Compass, Magnet, Fluid Extraction System,

and Robotic Claw **Weigh**t: 14.33 lbs

Safety Features: on/off switch, removable tether, fuse,

motor encasement

Special Features: Gripper arm, Vectored thrusters, Ducted

thrusters, NXT motor control system