College Location: Hoboken, New Jersey

Distance to International Competition: 874 Miles

EMPLOYEES:

- Stephanie Senkevich
  - Senior Mechanical Engineer
- Chris Stollen
  - Senior Mechanical Engineer
- Kevin Grudzinski
  - Senior Mechanical Engineer
- Riaz Chowdhury
  - Senior Mechanical Engineer
- Woosung Lee
  - Senior Mechanical Engineer

ROV

- Approximate cost: $1,000
- Primary Material = PVC
Spec Sheet:

- **Chassis**
  - 1 in PVC
  - Unmodified air tight frame
  - Modular skeleton

- **Ballast Tanks**
  - Inner-tubes
  - Air actuator valves
  - Heavy-lift applicators only

- **Thrusters**
  - Mount
  - Directionality
  - Modular locations

- **Electronics**
  - Wire Management
    - Tether clips
    - Pipe manifold wire organizer (water-proofing)
    - Tether design
  - Electronics Enclosure
    - Lazer-cut mounting boards tray clips
    - Double o-ring seals
    - 6 inch clear acrylic
  - Control
    - BeagleBone Black (commands)
    - 2x Sabertooth 2x12 motor controls (thrusters + actuator)
    - 3x Raspberry Pi's for vision (720p real-time video feeds with 1080p video recording)
    - Joystick control
  - Software
    - Python
    - Joystick Controls

- **Gripper**
  - High strength linear actuator
  - Interchangeable claws
  - ‘pull-in’ motion