

ROV Name: PASCAL
Total Cost: \$1931.26
Primary materials: Acrylic, PVC, Polyethylene
Dimensions: 56cm (L) x 40cm (W) x 35cm (H)
Weight: 6.2 Kg

Mechanical safety features:

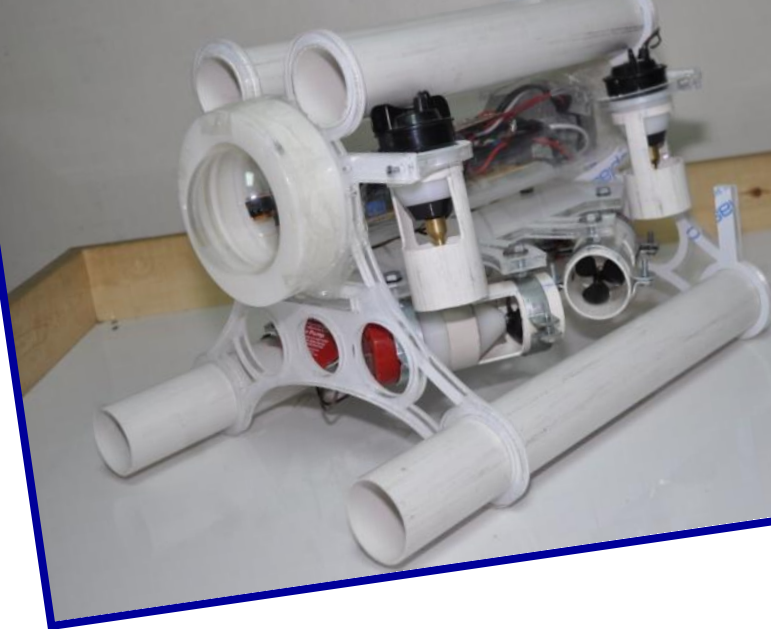
- The end caps of the electronics can be isolated by a layer of thick wax
- O-rings are incorporated into the end caps
- All edges are smoothed
- Kort nozzles are attached to the motors
- A firm handle is installed
- A safety rope is tied to the ROV

Electrical safety features:

- Ten fuses are installed in our ROV:
 - 40A fuse connected to the 48V line
 - 5A fuse on each motor
 - 1A fuse on control module
- 8 current sensors are used.
- Temperature sensor is used
- Water sensor is used
- A safety switch is installed

Special Features:

- Dry hull system with vector thrust
- PASCAL has its own driving station
- A graphical user interface is designed
- Pan and tilt system is used for camera
- Very thin tether with little drag



Notions Co.

Company Name:
Notions Co.
Company Affiliation:
Notions Development Academy
Home Town:
Alexandria, Egypt
Distance travelled:
11157.26 km to Seattle, Washington
Grade Levels:
10-11 - 12
Previous Participation:
2012 (our 2nd year)

Our Staff:

- *Nouran Soliman:* CEO, Co-pilot, Software developer
- *Dina Wael:* CAD designer, Media director
- *Mariam Abd El-Nasser:* CAD designer, Media director
- *Shrouk Ashraf:* Electrical design engineer, Public relations director
- *Sondos El-Sayed:* Mechanical implementation engineer, Logistics director
- *Ahmed Ehab:* CFO, Pilot, Electrical design engineer
- *Ahmed Hamdy:* Ansys simulator, tether man, Technical writing director
- *Hossam Amr:* Mechanical implementation engineer



Sweeping the Blue Earth!