Team Spec Sheet for:
Central High School – Central RoboLancers

Team Information

Company Name: Central High School – Central RoboLancers
Class: Ranger
Home state: Philadelphia, PA
Distance Required to Travel to the International Competition: 2,515.4 km

History of MATE ROV Competition Participation: We are a returning team. Last year (2010) was our rookie year.

Range of Education: High School (11th and 12th grade)
Mentor: Mr. Daniel Ueda

Members and Their Roles:

Chief Executive Officer: Gabriela Alfaro-Angulo
Chief Financial Officer: Bianca Rivera
Chief Operating Officer: Alexandra Thompkins-Johns
Chief Programmer: Kevin Mai
Chief Electrical Engineer: Jonathan Zhu
Chief of Documentation: Mary Conrad
Chief of Communication: Margaret March
- Marketing Team:
  Linda Babu
  Jocelyn Mar
  Rose Manjarres
Chief Mechanical Engineer: Kyle Fragassi
- Head of Propulsion:
  Craig Talis
Propulsion Team:
  Quahmir Martin
- Head of Structure:
  Jordan Ramos
Structure Team:
  Kevin Scott
Head of Manipulation: Alexandra Thompkins-Johns
Manipulator Team:
  Melvin Brown
  Joshua Lynch
  Michael Manson
Chief Driver: Jonathan Zhu

ROV Information

ROV Name: The RoboLobster
Total Cost: $1,986.42
Primary Materials: The structure is primarily made of ¾” PVC. The propellers are held on using machined ABS Plastic. The floatation is high-density polyurethane foam.
Dimensions: .6731m (length) x .4572m (width) x .1905m (height)
Total Weight: 4.76271 kg

Safety Features: Wires zip tied to the structure of the RoboLobster prevent entanglement. A shut off switch on the control board allows for the entire ROV to be shut off at once. Well-placed foam flotation prevents the ROV from flipping over.

Special Features: Multi-functioning claw both opens and closes and rotates. A sample collection tank allows for the collection of water from different depths.