

**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

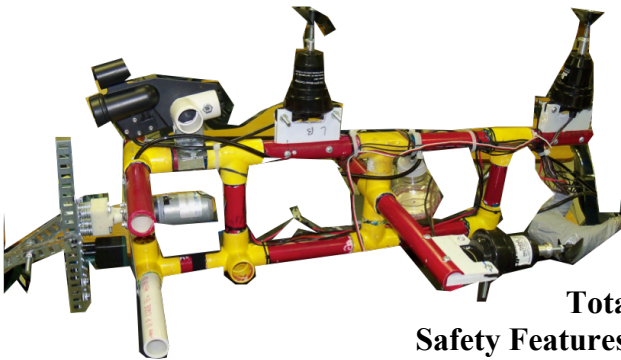
History of MATE ROV Competition Participation: We are a returning team. Last year (2010) was our rookie year.

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 3/4" 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 floatation 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.