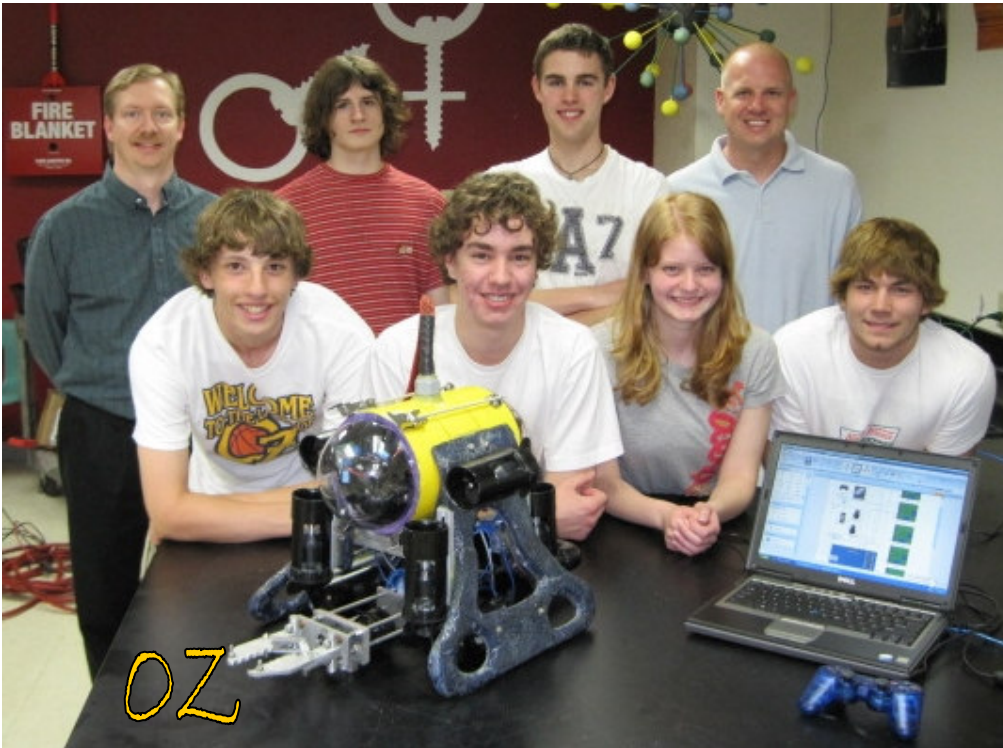


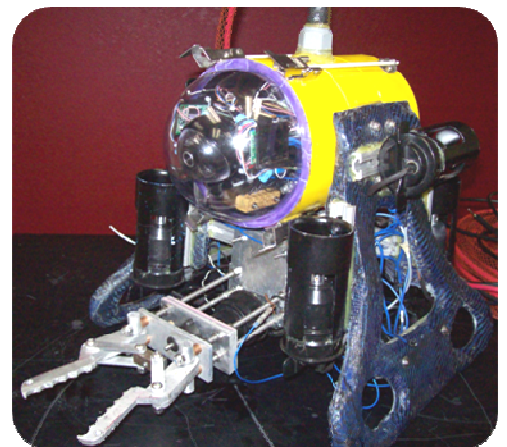
Team Spec Sheet  
Ozaukee High School  
Wisconsin  
Distance traveled: 6697.276 Km



First Place Wisconsin Regional competition  
First time regional and international competition

### ROV Specs

- Name: OZ
- Total cost of ROV: \$2215.89
- Primary materials used: PVC pipe, carbon fiber, 80/20 aluminum
- Dimensions: 36.8 cm long by 37.5 cm high by 41 cm wide
- Weight in AIR: 12.8 Kg with ballast system
- Safety Features
  - Ducts around each thruster propeller
  - Warning labels
  - Separate fuses for each motor and internal power supply
  - Positive lead from the power supply is fused to limit power to 25 amps
  - Special design considerations to ensure there are no sharp edges
- Special Features
  - PVC dry housing
  - Carbon fiber skids
  - 9 ducted motors each tested at 4.6 Newtons of thrust
  - Arduino Microcontroller and separate motor drivers to provide variable speed (PWM) controlled by a PS2 handheld controller.
  - 2 - Pan, Tilt, Zoom (PTZ) cameras with sound
  - Multipurpose crustacean vacuum and agar boring tool
  - Multipurpose gripper tool



OZ ROV

### Ozaukee ROV Team:

(back left)

Randy Vogt – Mentor

Travis Sheperd – 12<sup>th</sup> grade  
CAD Designer

Austin Cole – 12<sup>th</sup> grade  
Programmer

Terry Hendrikse - Mentor

(front left)

Dominic Enea – 11<sup>th</sup> grade  
Mechanical Assembler

Nick Vogt – 11<sup>th</sup> grade  
Electrical Assembler

Lindsay Vogt – 12<sup>th</sup> grade  
Team Coordinator

Patrick Leonard – 12<sup>th</sup> grade  
Mechanical Assembler