



Defiance,

Our 2025 Underwater
Innovative Vehicle Design

Alpena High School

Underwater Research Robotic
500 East River Street
Alpena, MI 49707

Vehicle Specifications

- Vehicle Weight 6.8 Kg
- Frame is constructed from aluminum rod and panels printed from PETG-CF
- Size: 35 cm x 40 cm x 22 cm
- 25-amp inline fuse
- Build Hours: 318 Hours
- Total Vehicle Value: \$3,600
- Distance Traveled to World Competition: 0 Miles

Lydia Thomson - CEO

Grade: 11

Sarah Rabbideau - SAFETY OFFICER

Grade: 12

Ray Johnson - CTO

Grade: 09

Taylor Widajewski - CDO

Grade: 11

Lizzie Rabbideau - CFO

Grade: 10

Kylie Gagnon - LEAD FABRICATOR

Grade: 12

Myah Rondeau - PROJECT MANAGER

Grade: 12

Safety Sensors

- Leak
- Surge Protection
- Depth
- Temperature
- Power Monitoring

Benalli Gabara - MECH. ENGINEER

Grade: 09

Alexa Blumenthal - SW ENGINEER

Grade: 11

Matthew Kowalski - FABRICATOR

Grade: 09

Gus Wirgau - PILOT

Grade: 10

James Rawlings - PILOT

Grade: 10

Dawson Smolinski - MECH. ENGINEER

Grade: 09

Special Features

- 15 M Tether
- Mechanical Gripper
- Machine Vision
- HD Drive Camera
- Six Thruster

No Lasers or Fluid Power

Team Competitive History

The Underwater Research Robotic Company (UR2) was established in 2009 and achieved 3rd place at the Great Lake Regionals in 2010. The team has secured 1st place at the Great Lakes Regional competition nine times. UR2 has participated in the World Championships ten times, achieving a top-ten finish five times.