

AMNO & CO

ABOUT THE TEAM



Left to right: Clara (CEO), Nicholas (machinist) and Alex (software specialist) hold a successful piece of carbon fiber

Alex Miller (9th grade, Garfield High School¹, 5th year of MATE competition): Software specialist, pilot
Clara Orndorff (11th grade, Ingraham High School¹, 5th year of MATE competition): CEO, tether manager
Nicholas Orndorff (9th grade, Ingraham High School¹), 5th year of MATE competition): Machinist, pilot

Seattle, WA, USA – 2213.8 miles (3562.8 kilometers) to Alpena, MI

ROV SPECS

Cost: ~ \$8,661 (includes travel costs as well as the approximate values of all donated/discounted parts and services)

Dimensions: 0.31 m tall by 0.762 m long by 0.508 m wide

Weight: 22.67 kg

Special features:

- RS485-based control system with depth hold
- CNC-machined clear Waterproof Electronics Container for onboard electronics
- Electronic actuator-driven manipulator with limit switches
- Microcontroller-based conductivity sensor
- Multi-purpose suction pump system for retrieval of agar and debris
- Durable Starboard frame with carbon fiber elements

Safety features:

- Anti-leak vacuum testing system
- 25 A fuses
- Leak detector
- Potted heatshrink connections with silicone
- Main power on/off switch
- Strain relief
- Inboard motors



Our ROV transporting the plate

¹ AMNO & CO is not affiliated with any school or organization