



PROP-PULSION

ROBOTICS

Simply Complex

Brother Rice High School
Chicago IL, USA



Max Senior CEO Electric	Dominic Senior CEO ROV Tools	Vince Senior Frame Buoyancy	Nathan Senior Safety Tether	Jonathan Junior Fabrication Graphic Design	Mr. D Teacher Mentor
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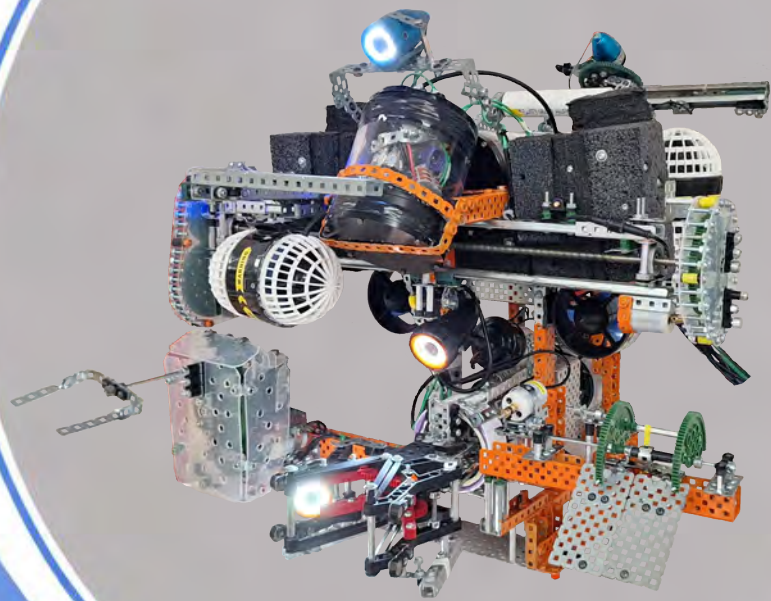
*** All members are returning

Distance Traveled - 3862 km

Team History - 4th trip to the World Championship
- Best finish 12th, placed top 20 in each

Student Build Hours - 1350 hours

ROV Cost - \$3,854 (USD)



Ω OMEGA

OMEGA Specifications

Length - 74cm

Width - 65cm

Height - 60cm

Weight - 18.2 kg

Tether - 17m

System Power - 12v DC

External Power - 120v AC

Key Safety Features

- IP20 rated thruster and gearbox shrouds
- Warning labels
- Tether strain relief
- IP68 rated control box
- 25 amp fuse
- LED & Infrared cameras

Notable Design Features



- Marine grade aluminum frame



- 6 Blue Robotics T200 thrusters



- Precise, 4 degree-of-freedom ROV control



- Large quad screen monitor



- Dual axis front tool camera actuation



- Rear view camera



- Multi-purpose, dual axis, gripper tool



- Numerous “surgical” specialty tools



- Simple, reverse polarity tool control



- AI Invasive species detection software



- Dual pilot control system



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OMEGA in action!



www.brotherrice.org/robotics



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