# **sfrobotics**

MORE THAN JUST ROBOTS

# ROV HORNET SPEC SHEET COMPANY SPECS

Company: SFROBOTICS (9th Year)
Team Name: Mariner Mayhem

City: St. Francis, WI Home Country: USA

Distance to World Championship: 673 miles

# **SFROBOTICS COMPANY PROFILE**



#### **Andre Moreno**

- 7th Year Senior (2024)
- 2024 Career Goal: Computer Science
- Team Role: Software/ROV Pilot



### **Desiree Halsey**

- 3rd Year Senior (2024)
- 2024 Career Goal: Physical Therapist
- Team Role: CFO /Technical Writer



#### **Emmitt Esselstrom**

- 5th Year Junior (2025)
- 2024 Career Goal: Robotics Engineer
- Team Role: CEO/ Mechanical Engineer



# **Brady Thorne**

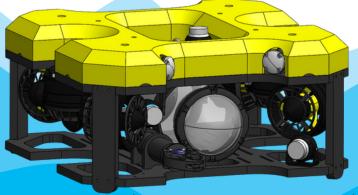
- 2nd Year 8th Grade (2028)
- 2024 Career Goal: Mechanical Engineer
- Team Role: Build/ Team Support



# **Cole Cushing**

- 2nd Year 8th Grade (2028)
- 2024 Career Goal: Mechanical Engineer
- Team Role: Build / Team Support / CAD

**Mentors**: Peter Graven and Luther Esselstrom



(CAD sketch and images courtesy of Emmitt Esselstrom)



(CAD sketch and images courtesy of Emmitt Esselstrom)

# **ROV SPECS**

ROV NAME: ROV HORNET Team Name: Mariner Mayhem Size: 43.8cm x 43.8cm x 21.6cm

Weight: 11kg

Total Estimated Cost: \$5700.50

- Safety Features: Safety
   Features: MATE approved
   thrusters (encased), 25A in-line
   fuse, slightly positive buoyancy,
   LED lights, water leakage sensor,
   strain relief on tether, yellow
   nylon tether sheathing, ROV
   heartbeat and safety labels.
- Special Features: rotating gripper, lightweight, small size, fast, connected camera system, and a servo controlled camera
- Hours Spent on ROV: 7 hours x 10 weeks (70 maximum involvement hours per person) Team did not meet the maximum hours possible.

# **ACKNOWLEDGEMENTS**

SFROBOTICS would like to thank Kingsport Aquatic Center for hosting the MATE ROV World Championship. SFROBOTICS would like to thank JetCuts, BigRep and COEX in the manufacturing of ROV components. COEX for material donation and our financial supporter - the St. Francis Public School District.