



ROLLA, MO → LONG BEACH, CA

2,791 KM

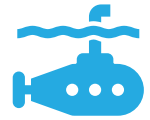


MATE

1<sup>ST</sup> TIME MATE PARTICIPANT



HEIGHT: 34.4 CM  
LENGTH: 62.5 CM  
WIDTH: 51.2 CM  
WEIGHT: 24.6 KG  
COST: 3168.42 \$  
TIME: 5000+ HRS



8 POWERFUL THRUSTERS

Allow for easy and efficient movement throughout water

**SS&T MISSOURI**



**UNDERWATER ROBOTICS TEAM**

**MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY**

COMPANY SPEC SHEET 2022



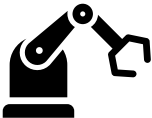
**170° EXTERNAL FISHEYE CAMERA**

Creates an extended field of vision



**OBJECT RECOGNITION**

Software can facilitate fast identification of foreign items



**LINEAR ACTUATOR MANIPULATOR**

Simple and effective object handling



**SAFETY FEATURES**

**INTERNAL CAMERA SETUP**

Immediate response to leaks and damages to electrical system

**AUTOMATIC CIRCUIT BREAKERS**

If amperage exceeds a safe level, automatic shutoff occurs

**WATERPROOFING**

Prevents potential water damage to internal systems



**2021-2022 MEMBERS**

**OFFICERS**

Anthony Domijan, CEO, Graduate  
Lindsay Pitts, COO, Junior  
Ian Deal, CTO, Junior

**MECHANICAL**

Mitchell Harbour, Lead, Sophomore  
Elijah Bracken, Freshman  
Ethan Stepanek, Sophomore  
Mackenzie Hilburn, Freshman  
Shelby Judd, Freshman  
Zach Roberts, Freshman

**MENTORS**

Kimberly Kinder  
Dr. Christopher Ramsay

**COMPUTING**

Steven Karst, Lead, Sophomore  
Cade Wilkerson, Freshman  
Clayton Cowen, Freshman  
Eden Spiva, Freshman  
Jason Xu, Freshman  
Nikola Andric, Graduate

**ELECTRICAL**

Chris Schneider, Lead, Senior  
Adelle Spriggon, Freshman  
Cameron Triplett, Sophomore  
Cole Renken, Sophomore  
Elizabeth Edmunds, Sophomore  
Emma Heide, Junior  
Mayowa Daniel, Senior  
Xavier Ross, Freshman

