Our Team
Chris Bauer - CEO, Software Engineer, Grade 8
Jonathan Yao - COO, Software Engineer, Grade 8
Areeba Wani - CTO, Electrical Engineer, Grade 8
Cherry Abraham - CFO, Electrical Engineer, Grade 8
Dayyan Imran Shaikh - Software Engineer, Grade 8
Saajan Shah - Mechanical Engineer, Grade 8
Abhishek Kotgire - Mechanical Engineer, Grade 8
Krisha Mahajan - Pilot, Electrical Engineer, Grade 8
Sabrina Jamil - Job Safety Officer, Mechanical Engineer, Grade 8
Aarushi Aloni - Job Safety Officer, Software Engineer, Grade 8

Team Information
❖ School: Harrington Middle School
❖ Location: 514 Mt. Laurel Road Mt. Laurel, NJ 08054, USA
❖ Distance to PA Regional: 45 miles
❖ Distance to International Competition: 2,752 miles
❖ Only our CEO, Chris Bauer, has MATE experience

2017 HMS SeaBots Ranger Team History
2017 PA Regionals at Villanova University
❖ 1st Place Product Demonstration
❖ 2nd Place Overall

HMS SeaBots Ranger Team School History
2016 Internationals at NASA NBL in Houston, Texas
❖ 3rd Place Overall
2016 PA Regionals
❖ 1st Place Overall
❖ 1st Place Product Demonstration
❖ 1st Place Spirit and Sportsmanship
❖ 2nd Place Marketing Display
❖ 2nd Place Technical Documentation
2015 PA Regionals (First HMS SeaBots: Ranger Team)
❖ 1st Place Product Demo
❖ 1st Place Spirit and Sportsmanship

ROV Specifications
Special Features:
❖ Neutrally buoyant tether
❖ 4 Johnson 500 GPH bilge pump motors
❖ 3D printed shrouds
❖ HD 8-LED night vision camera
❖ Arduino Uno to control gripper
❖ Standard Gripper Kit A with 100 degree opening/closing capability
❖ HiTec HS-646WP servo for gripper
❖ Red LED Raman spectrometer device
❖ One-way valve agar sampler

Estimated Total Cost $1,356.14
Total Student Hours 500 hours

Safety Features:
❖ Shrouds marked with warning tape
❖ Strain reliefs for wires
❖ Kill switch for main power
❖ Heat sink plate in control box
❖ 25 Amp inline fuse

Measurements:
❖ Size in L x W x H: 40cm x 33cm x 30cm
❖ Weight: 2.33kg