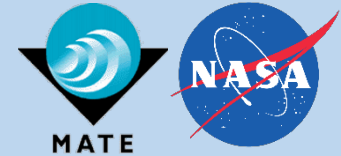


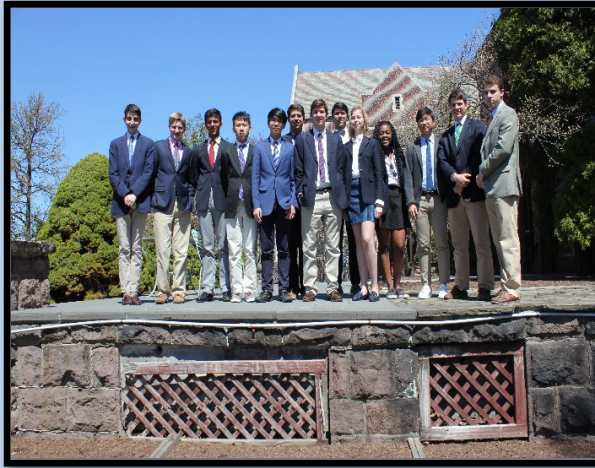


Sea Rams, LLC Presents *True*
The Hill School
717 E High Street
Pottstown, PA 19464



Distance to NASA Johnson Space Center's Neutral Buoyancy Laboratory: 1534 miles.

History of MATE Participation: We placed third at MATE-PA in our inaugural year in 2015, and were grateful to represent MATE-PA at the International Competition in Newfoundland. We have two returning students in Chief Design Officer Kevin Kim and Chief Technology Officer Dylan Spector.



Sea Rams Robotics (from left to right)

Damian Baraty (Team Captain / Instructor)*
Tim Jump (Faculty Adviser)*
Robert Steinman (Faculty Adviser)*
Harrison Wolf (Software Intern / 9th)
Harrison Nicholls (CFO / 9th)
Manshu Sharma (CEO / 11th)
Alan He (Design Engineer / 10th)
David Park (Robotic Arm Engineer / 10th)
Jake Trombley (Relations Coordinator / 12th)
Alex Rakos (Graphics Designer / 11th)
Aaron Lethers (Graphics Designer / 12th)
Ceylin Sener (Communications Director / 9th)
Breana McDonald (Project Manager / 12th)
Kevin Kim (CDO / 12th) x
Erik Patrinoastro (Electrical Engineer / 11th)
Dylan Spector (CTO / 12th) x
Andy Donato (System Specialist / 11th)*
*Not pictured. x Experienced Returner.

ROV Tech Specs

Name: Sea Rams True

Price: \$1,558

Hours of Contribution (hrs): 384

Alan, David, Jake, Alex, Aaron, Breana, and Erik – 42

Harrison and Harry – 60

Ceylin and Kevin – 120

Manshu, Dylan, and Andy – 162

Safety Features

- **Rigorous Water Proof System** – Most on board electronics contained within the pressure housing to isolate electronics. Wire connections waterproofed and shrink wrapped to withstand diverse working conditions.
- **T-100 Thrusters by Blue Robotics™** – Industry standard and MATE approved thrusters have sealed electronics and protective shroud to prevent electrical shocks and digital injury.
- **SuperSafe Software** – Custom software written with safe defaults in mind for novice users.

Special Features

- **Robotic Arm** – Double hinged and two finger grips that allow easier underwater tasks.
- **Easy-to-use Joystick** – Logitech™ Extreme 3D Pro Joystick provides an intuitive control interface. The joystick controls our robot's movement in five axes of motion.
- **Wide Angle Camera System** – Simultaneous displays of the robot's surroundings.
- **Laser-cut Chassis** – Delrin® engineered chassis for light weight and superior stability.
- **Watertight Enclosure & Dome End** – Safe container with holes for electronics and wires.
- **Subsea Buoyancy Foam** – Machined and coated to provide the perfect float for the robot.
- **Efficient Electronics** – Easy to configure and user friendly electronics system.
- **Quick Connect** – Easy replacement of motors without any need to open the pressure housing.

