



ORANGE MANGO, LLC PRESENTS ALPHA
THE HILL SCHOOL
717 E HIGH STREET,
POTTSTOWN, PA 19464

DISTANCE REQUIRED FOR INTERNATIONAL COMPETITION: 990 MILES
HISTORY OF MATE PARTICIPATION: THIS IS OUR FIRST YEAR ENTERING IN THIS COMPETITION, AND IN FACT, THE FIRST YEAR OF THE HILL SCHOOL'S ROBOTICS TEAM.



ORANGE MANGO ROBOTICS **(FROM LEFT TO RIGHT)**

DAMIAN BARATY (INSTRUCTOR/SUPERVISOR),
KEVIN KIM (DESIGN ENGINEER / 11TH),
KONSTANTINE GOLOBOKOV (CHIEF SECURITY
OFFICER / 12TH), NATHAN RAKOS (CFO /
12TH), DAVID NULL (CEO / 12TH),
ADAM SCHIAVONE (CTO / 12TH),
DYLAN SPECTOR (GAME THEORIST / 11TH),
OWEN DAVIES (CHIEF SAFETY OFFICER / 10TH)
Max Opechowski (Communications Director / 12th), not pictured.

ROV TECH SPECS

NAME: ALPHA

PRICE: \$700

SAFETY FEATURES:

3D PRINTED MOTOR HOUSINGS: Ensures that all propellers are safe from any unwanted contact.

LASER FILTERS: Ensure that onboard lasers do not damage the eyes of humans or wildlife.

RIGOROUS WATER PROOF SYSTEM: Every on board electronic device or exposed junction goes through a thorough process of wrapping and epoxy sealing to ensure safe handling and electron transfer.

SPECIAL FEATURES:

ROBOTIC ARM: Double hinged, two finger grip, robotic arm attachment.

LASER SYSTEM: Lasers placed 16 inches apart used to accurately measure objects.

3D PRINTED MOTOR HOUSINGS: Designed to help reach maximum thrust capacity from propellers.

EASY-TO-USE JOYSTICK CONTROL: Logitech™ Extreme 3D Pro Joystick provides an intuitive control interface.

FLOATING UMBILICAL: Keeps excess tether from interfering with the functions to the robot.

POLOLU™ MOTOR CONTROLLERS: With a maximum current draw of 25 amps, these motor controllers are virtually invincible.

4 WAY WIDE ANGLE CAMERA SYSTEM: Provides simultaneous displays of the robot's surroundings.

DETACHABLE ACCESSORY SYSTEM: The robot is designed in such a way as to fit all sorts of custom attachments for any situation.

PHOTO OF VEHICLE:

