MANTA

SPEC SHEET

Epoxsea, The Hong Kong University of Science and Technology (Return)

ROV SPECIFICATIONS

Total Cost: **USD 5941.80** $

Distance to Tennessee: **13,328.45 km**

Design and Build Time: **> 3500 hours**

Flight Time: **> 40 hours**

SENSOR:
pH and Temperature Probe
Inertial Measurement Unit
Pressure Sensor

DIMENSION:
Length: 565.68 mm
Width: 558 mm
Height: 342 mm

ELECTRONIC SYSTEM:
Modular Electronics Setup
Standardized Electronics Modules

MASS:
ROV Mass: 19.8 kg
Tether Mass: 3.8 kg

SOFTWARE SYSTEM:
CAN Bus Integration
ROS Kinetic

SAFETY FEATURES:
Shrouded Thrusters
Strain Relief

BUOYANCY:
R-3318 Buoyancy Foam

SPECIAL FEATURES:
HD Serial Digital Camera
Modular Hardware Architecture
Interchangeable Manipulator Mount
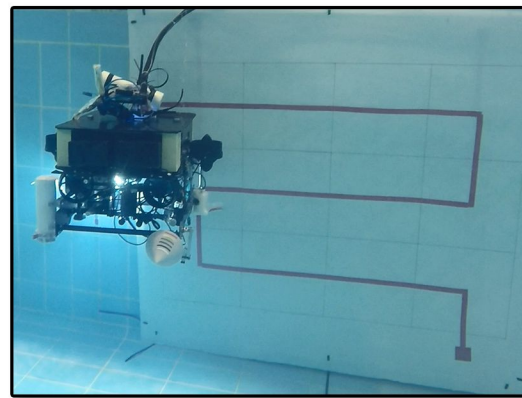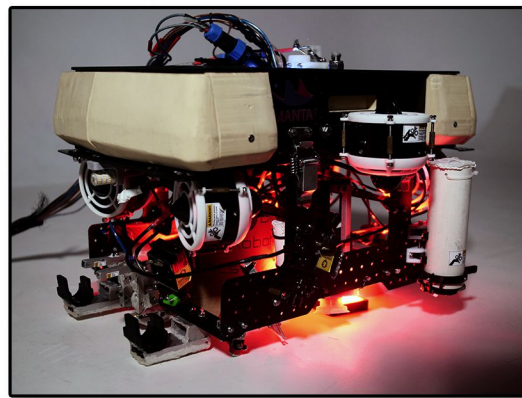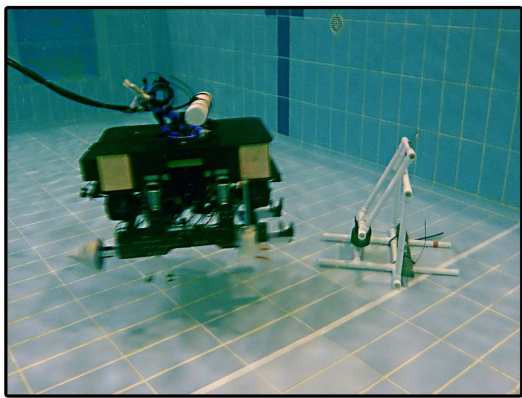
FRAMEWORK:
Made from Carbon Fiber Reinforced Polymer
Top Tier Houses Electronic Components
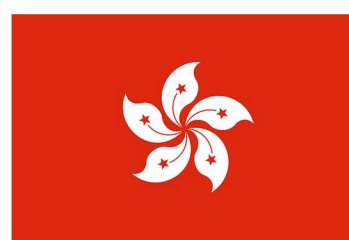Bottom Tier Houses Custom Designed Manipulators
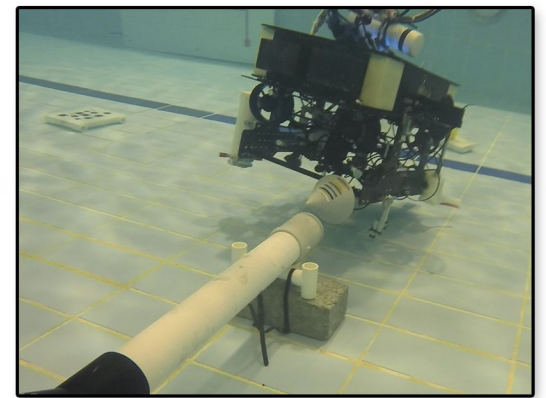
COMPANY INFORMATION

TEAM 9th Year Participants

David Sun	Year 2 | Return	CEO, Software Engineer
Yat Wing Cheung	Year 2 | Return	CFO, Electronics Engineer
Amanda Alodia Guito	Year 1 | New	CTO, Software Engineer
Tsz Ho Wong	Year 2 | Return	Mechanical Leader
Calvin Chee Hau Cheng	Year 3 | Return	Electronics Leader
Riwandy	Year 2 | Return	Software Leader
Chih-An Chou	Year 1 | New	Media Officer, Mechanical Engineer
Bryan Suryaraso Gani	Year 2 | New	Mechanical Engineer
Jung Eun Ahn	Year 2 | New	Cleaning Officer, Mechanical Engineer
Chi Shing Yeung	Year 2 | New	Mechanical Engineer
Kai Ching Chong	Year 1 | New	Mechanical Engineer
Yi-Hsuan Ho	Year 2 | New	Electronics Engineer
Ting-Kai Cheng	Year 1 | New	Safety Officer, Electronics Engineer
Cheuk Chee Chan	Year 1 | New	Media Officer, Electronics Engineer
Joszef Maximillian Adiguna	Year 1 | New	Electronics Engineer
Kelvin Leonardo Hartono	Year 1 | New	Software Engineer
Pak Long Pang	Year 1 | New	Software Engineer
Clyde Wesley Ang	Year 2 | New	Software Engineer

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香港科技大學
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Home State: Hong Kong