

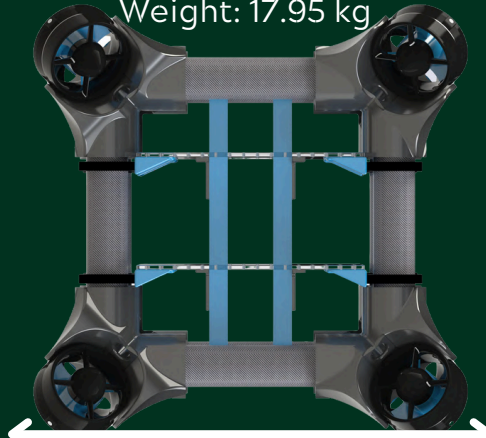


ROV NAME: WAHOO

Total student-hours to design & build: >1200 hours

SPECIAL FEATURES

Total Cost: USD \$3915
 Weight: 17.95 kg



Length x Width x Height
 Size: 40 cm x 40 cm x 50 cm

SAFETY FEATURES

1 8 Thruster Propulsion

Coupled with a stable control system, ensures precise, uniform movements across all axes at a consistent speed.

2 Structural Buoyancy

The frame contains calculated amount of air to achieve near-neutral buoyancy, requiring only minor adjustments for optimization.

3 Modular Manipulator

Modular Frame design rationale, which prioritizes adaptability and customization. Manipulator can be mounted flexibly without constraints on position or height.

4 Dice-Shaped Frame

Easy to repair and modify while offering stability and user-friendly controls that cater to operators of all experience levels.

5 Flawless Switchable Core Control System

With cameras on all sides and a dynamic control system, offers versatility beyond the traditional front-focused design.

6 ROS2

Leveraging ROS2, open-source framework used for robotics applications, enables precise and efficient underwater navigation.

Killbox for Emergencies

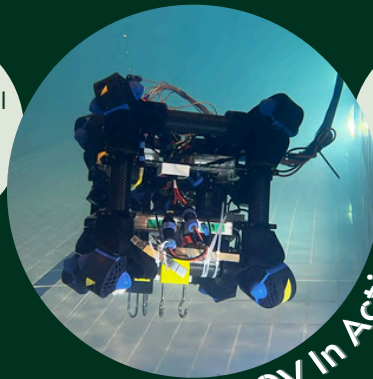
Reinforced Cable Protect Connection Wires from Wear and Tear

Advanced GUI Monitoring System

No Sharp Edges

Waterproofed Circuits before Testing

Thruster hexagonal guard



Company Name: EPOXSEA
 School: The Hong Kong University of Science and Technology



Software Engineers

- YIP Chi Ho (Leader, Year 2, COMP)
- CHAN Tak Ming (Year 3, COMP)
- CHI Ting-hsuan (Year 3, COMP + ELEC)
- TSAI Yiu Ki (Year 2, COMP)
- ZHANG Tin Yau (Year 2, COMP)

Hardware Engineers

- SONATA Joshua Elnathan (Leader, Year 3, ELEC)
- HONG Jiarong (Year 2, ELEC)
- JANIUS Erick (Year 2, MECH)
- KUO Chen-chieh (Year 3, ELEC + COSC)
- LEE Ka Hin (Year 1, CHEM)
- LEE Sze Chun Martin (Year 2, ELEC)

Mechanical Engineers

- HUI Kan Lap (Leader, Year 2, ISD)
- LCHAN Ho (Year 3, ISD)
- KWOK Wing Lam (Year 3, MECH + AI)
- LAI Pui Yin (Year 1, Engineering)
- LAM Chun Ho (Year 3, MECH)
- MUI Jessye (Year 2, MECH)
- NG Shing Yung (Year 2, CIVL)
- WONG Chin Ching (Year 2, CIVL)
- YANG Shi Long (Year 2, ELEC)

Business

- WONG Wing Him (Leader, Year 3, ELEC)
- TCHEN Wai Yan Grace (Year 1, Engineering + AI)
- TAM Siu Ho (Year 2, ELEC)
- TANG Justin Kit Hang (Year 2, WBB)



Home State: Hong Kong



Distance Travelled: 12000km

CEO

LI Chi Kin (Year 2, COMP)

CFO

NG Hau YI Chloe (Year 1, Engineering + AI)

CTO

TANG Lok Hang (Year 1, Engineering + AI)

Safety Officer

ZHENG Yiqi (Year 1, Engineering)

Pilot

KHAIDAR, Orazkhan (Year 2, ELEC)

Supervised by,

Dr. WOO Kam Tim
 LEUNG Chun Yin