

Special Features

1. Two-layers design

The upper layer is the maneuver frame, and the bottom layer is the manipulator frame. The bottom layer is removable for easier transportation.

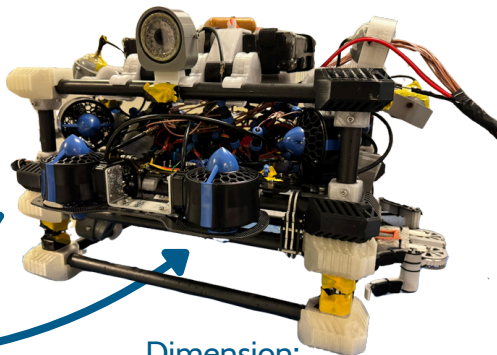
2. Thrusters

Equipped with eight ESC-integrated thrusters: four vertical and four horizontal, the ROV's retractable vertical thrusters allow compact transport. When deployed, they enable diving, ascending, and depth control.

3. Ubuntu 22.04 inside a virtual machine

We run Ubuntu 22.04 on a virtual machine on Mac Mini and run ROS2 on the virtual machine. It can avoid the need to repartition the disk.

Weight:
17.35kg



Dimension:
60cm x 40cm x 40cm

Safety Features:

No sharp edges

GUI monitoring system

Kill-box for emergency

Waterproof with epoxy

CEO

WONG Chin Ching (Year 3, CIVL)

CFO

TANG Yik Tung (Year 1, SENG)

CTO

KU Ryan Chun Wing (Year 1, SENG + AI)

Safety Officer

TANJAYA Neil Edbert (Year 1, SENG)

Pilot

LI Kai Kin (Year 3, CHEM)

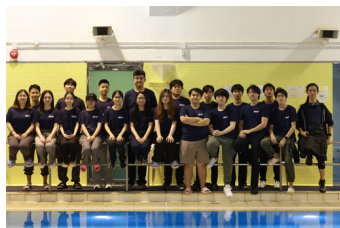
Business Team

TAM Siu Ho (Leader, Year 3, ELEC)

LAM Mei Ting Megan (Year 1, DDP)

LAU Wing Man Cecilia (Year 2, MATH)

NG Shing Yung (Year 3, CIVL)



Software Engineers

NG Hau Yi Chloe (Leader, Year 2, COMP)

HUANG Yuen Ngai (Year 1, SENG + AI)

KIM JinWan (Year 1, SENG)

LEE Shing Fan Adam (Year 3, ELEC)

LEUNG Tsz Kwan (Year 4, CPEG)

Hardware Engineers

LEE Ka Hin (Leader, Year 2, CHEM)

JANIUS Erick (Year 3, MECH)

LAW Yuan (Year 1, SENG)

LEE Sze Chun Martin (Year 3, ELEC)

SOH Winston (Year 1, SENG)

TO Isabelle (Year 2, ELEC + AI)

Mechanical Engineers

WAI Hoi Man (Leader, Year 1, SENG)

CHAN Ho (Year 4, ISD)

LI Xinfeiyang (Year 1, SENG)

TANG Lok Hang (Year 2, CPEG)

YANG Shi Long (Year 3, ELEC)

YIP Yee Lam (Year 1, SENG)

Supervised by

Dr. WOO Kam Tim

LEUNG Chun Yin

Company Name:

EPOXSEA

School:

The Hong Kong University of Science and Technology

History of MATE competition participation:
Returning in 13th year

Cost:

\$4620USD

Design & Build:

31,720 student-hours



Home State: Hong Kong

Distance Traveled: 12,328km

