



IENGINEERING

St. Stephens College

22 Tung Tau Wan Road, Stanley, Hong Kong, China

Distance travel: 12130km

MEMBER LIST



Li Jin
Grade 11
CEO, ROV Department



Hui Sheung Chun
Grade 8
Pilot



Li Jiale
Grade 11
CEO, ROV Department



Chan Pak Hei
Grade 8
Pilot



Yu Luning Lurin
Grade 10
CFO, Float Department



Wang Hing Yuen Demi
Grade 9
ROV Department



Leung Kai Ming
Grade 9
CFO, Float Department



Ng Yin Ting
Grade 9
ROV Department



Liu Pak Hei Jude Asher
Grade 9
CTO, Float Department



Choi Pui Ho
Grade 8
ROV Department



Yeung Chuen Ryan
Grade 12
Consultant



Ng Yuksun Rafael
Grade 8
ROV Department



Lo Yu Kiu
Grade 11
Float Department



Chung Chi Yat
Grade 9
Float Department



Qiu Jia Da
Grade 10
Props Department



To Lut Wang
Grade 7
Props Department



Cheung Ka Ho Gabriel
Grade 9
Props Department



Wang Jie
Grade 7
Props Department



Li Yat Ham
Grade 8
Props Department



Fu William
Grade 7
Props Department



Tai Kit Ming
Grade 8
Props Department



Gao Ruize
Grade 7
Props Department



Ng Chung To
Grade 8
Props Department



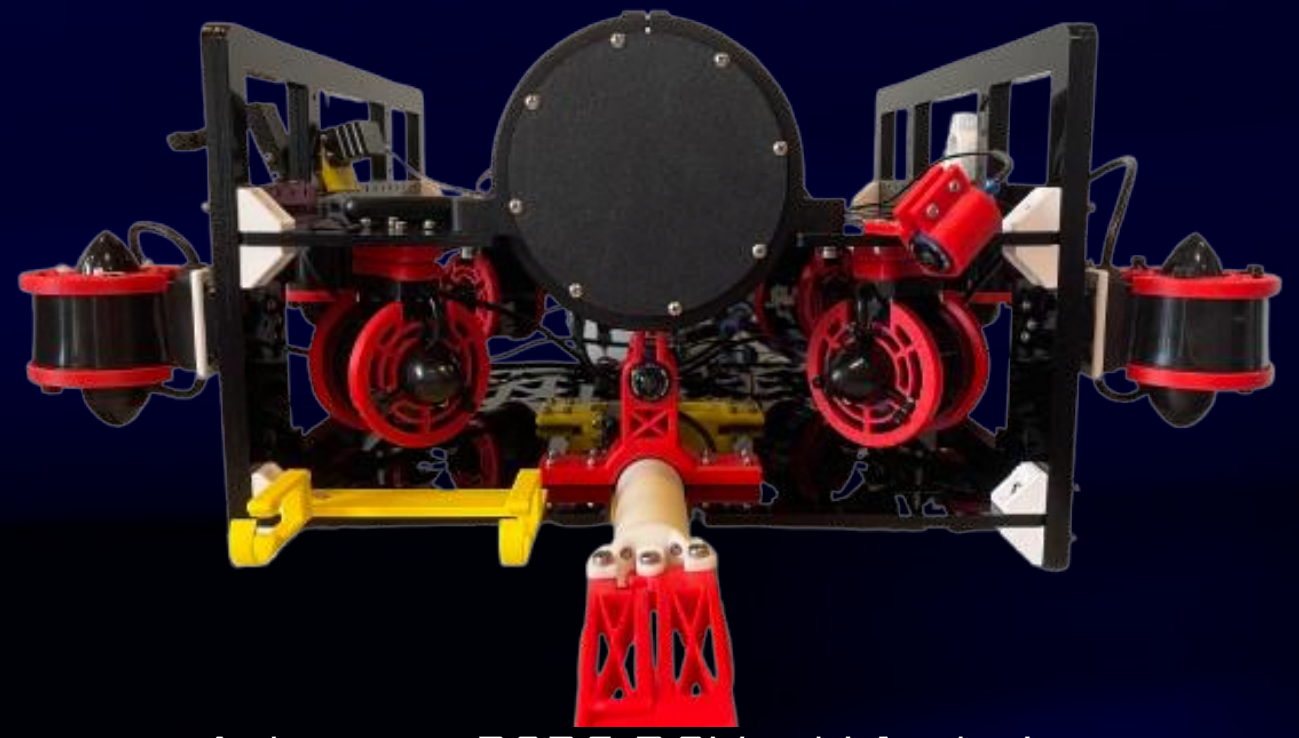
Lam Joshua
Grade 7
Props Department



Huang Junwen
Grade 7
Props Department



Gao Tianqi
Grade 7
Props Department



Aphex, our 2026 ROV vehicle design

TOTAL COST: US\$1465.14

DIMENSION: 47CM (W) / 70CM (L) / 37CM (H)

WEIGHT: 5.65KG

TOTAL STUDENT HOURS TO BUILD: 12 STUDENTS / 2 HOURS / 41 DAYS

OUR COMPANY

Our company was founded in 2023. It aims to provide a platform for students dedicated to engineering and marine technology and to train students with different interests in different fields of engineering, with a balanced emphasis on knowledge, teamwork, responsibility, and problem-solving skills development in a caring and supportive society environment.

TEACHER ADVISOR

- Mr. Yuk Wang, Eric Chan
- Mr. Ng Sze Ho, Stephen
- Ms. Tang Yee Lam, Iris
- Mr. Koo Kin Nam
- Mr. Lui Hung Kit, Jackson
- Mr. Chan Chi Wa

SPECIAL FEATURES

- Servo motors for the claw
 - Could rotate 360°
 - Allow the claw to rotate 360° and open and close the claw
 - Mounted under Aphex's cylinder
 - Servo motor for plugging the syringe
- 3D-printed components used to securely mount all Aphex's equipments.
 - Extended structural parts are lightweight.
 - Manufactured using high-strength PETG filament.
 - Fully custom-designed to avoid unnecessary materials.
 - Easy to test, modify, and adjust as needed.
- All components include pre-designed screw holes for easy mounting onto Aphex.
 - A total of 4 cameras: 1 main camera + 2 cameras for motor monitoring + 1 camera for observing the water surface
 - Specialised for monitoring different parts of Aphex

SAFETY FEATURES

- All thrusters are fitted with propeller guards in red.
- All sharp edges are rounded with fillets to prevent injury to personnel and damage to underwater equipment.
- A 25A fuse is installed within 30 cm of the Anderson Powerpole connector to interrupt current flow in the event of an abnormally high current caused by a short circuit or other unexpected fault.
- All moving parts on Aphex, including thrusters, robotic arms, and servo motors, are marked with red-and-yellow "WARNING! MOVING PARTS!" labels to ensure users and others are clearly alerted.
- Main power cables feature 3D-printed labels indicating input and output directions.