

# ARC



German Swiss International School  
11 Guilford Road  
Hong Kong

Year 11 and 12 Students  
Est. 2017

Returning  
Ranger Team

Distance required to travel to the international competition: 12,719 km

## The Team:

**Elliot Jinoo Hong** – Chief Executive Officer, Software & Electrical Engineer, Designer, Pilot

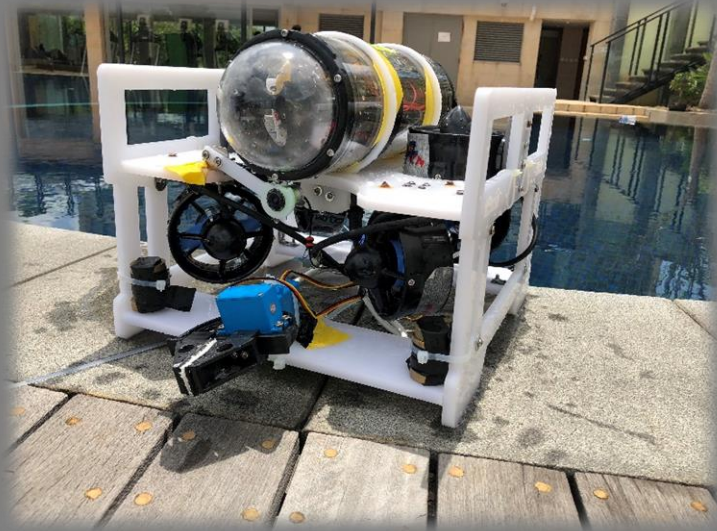
**Arushee Kadam** – Electrical & Mechanical Engineer, Designer, Co-Pilot

**Audrey Yung** – Chief Financial Officer, Mechanical Engineer, Onshore Crew Member

**Jeffrey Chak**, Software Engineer, Safety Officer, Onshore Crew Member

**Cyrus Lam** – Mechanical Engineer, Safety Officer, Tether Supervisor

**Mr. John Shearman** - Mentor



## **Name of ROV:**

NOAA

## **Approximate Manufacturing Cost:**

2000USD

## **Weight:**

8.4kg

## **Dimensions:**

39 cm x 28.5cm x 33.5 cm

## **Material:**

HPDE

## Safety features:

- 20A in line fuse less than 30cm away from power supply
- Shrouded and guarded thrusters
- Emergency kill switch to cut power
- Warning signs on water tight compartment

## Additional features:

- 3D printed motor mounts
- Custom built control box with big joysticks for precision -tailor made for the ROV
- Fully detachable tether
- Removable front panel for various tools
- Only 6 thrusters in a special configuration to balance between stability, maneuverability, and power efficiency