



CMA UNDERWATER EXPERT Ltd.

School name : CMA Secondary School in Hong Kong, China

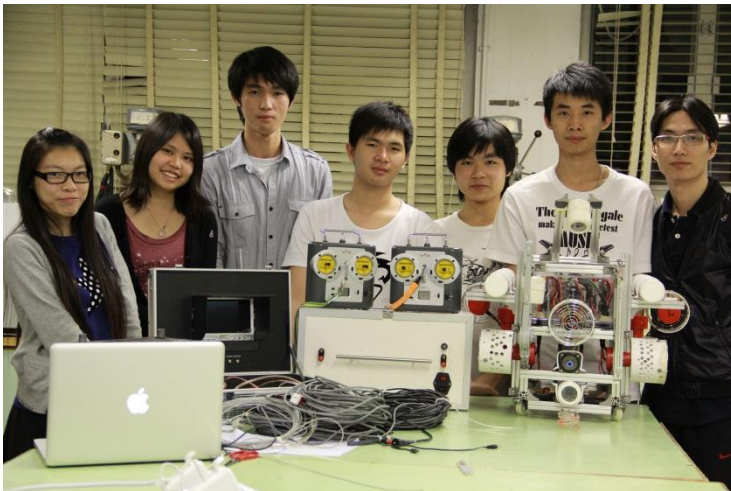
Club name : Design and Applied Technology Club

Distance required to travel to the International Competition: 14129 kilometers

Competition History :

CMA-ROV has participated the MATE HK Regional contest with fifth times.

This is first time participating in the MATE International competition.



Team photo (From left to right)

Team Member Name	(Form, Role)
Yeung Suet Yee, Queenie	(7, Secretary)
Poon Wing Kee, Kimberly	(7, CEO)
Chen Sen Chang	(6, Electrical Engineer)
Dang Quoc Vuong	(3, Research and Development)
Chan Cheung Hin	(6, System Engineer)
Leung Shun Kuen	(4, Mechanical Engineer)
Cheung Man Yuen	(Technology Teacher, Mentor)

ROV SPECS

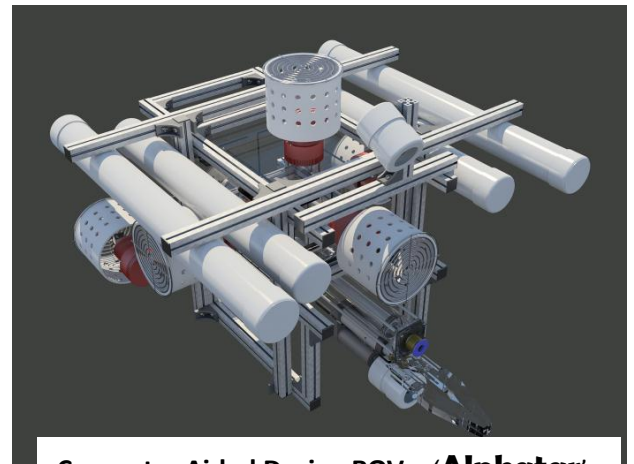
CMA - ROV Name	:	Alphatar
Total Cost	:	HK\$ 10,680
Primary material	:	30mm X 30mm Aluminum beam, Acrylic, PVC
Dimensions	:	Length - 80cm Width - 45cm Height - 50cm
Weight	:	18 kg
Speed	:	Horizontal Speed - 0.58 m/sec. Vertical Speed -0.75 m/sec.

Safety Features :

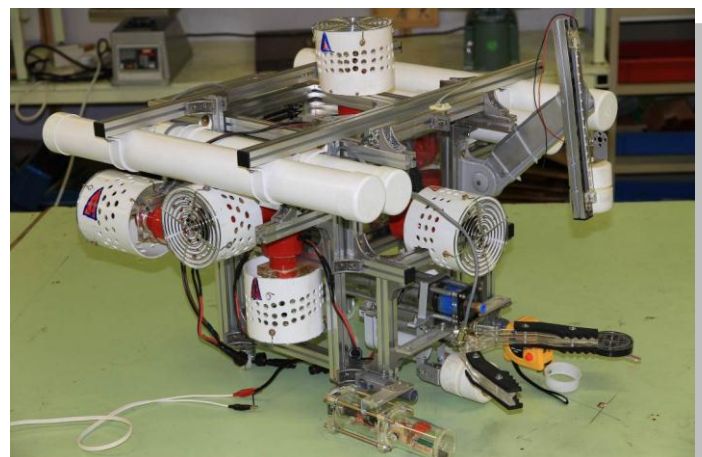
- Clearly labeled moving parts
- 20A fuse in place
- No sharp edges
- Current limiter

Special Features :

- Custom waterproofed control box design
- Custom manipulator arm design
- Custom modular frame design
- Custom current limiter design
- Replaceable module design
- Electronic metal detector
- Rapid installation



Computer Aided Design ROV 'Alphatar'



Hong Kong Regional - Ranger Class Champion
CMA - ROV 'Alphatar'