



Vortex Explorers

Vortex Academy



Figure 1. Megatron By Retaj Hemida



Figure 2. Vortex Company Photo, By Maryam Mohamed

ALEXANDRIA, EGYPT

YEAR COMPETING: 10TH YEAR

THE MEGATRON

REDEFINING WHAT'S POSSIBLE BENEATH THE SURFACE

Total Cost: USD \$6670 Total Mass in Air: 23.6 KG **Overall Dimensions:**

X: 749.95 mm Y: 653.33 mm Z: 575.09 mm Primary Material: Aluminum Total Hours: 3907.8

SAFETY FEATURES

- Fuses & Kill switch
- M Internal Cooling Fan
- Deburred Edges
 Thruster Guards
- Shrouded Tether with Protective Holder
- Waterproof Enclosures up to 10m
- Wehicle Manual Arming Protocol

SPECIAL FEATURES

- Advanced Control System with Raspberry pi 5 & Pixhawk, providing robust vehicle control and various flight modes
- VORTEX UI Unified and Customizable GUI (Multi-Device Support, Modular Design and User-Friendly Interface)
- High-resolution real-time imaging from 7 IP PoE cameras providing full 360-degree coverage around the ROV

🌾 Specialized array of precision tools

COMPANY STRUCTURE

SOFTWARE ENGINEERS

- 25' Mostafa Hala CEO
- 25' Ali Mones Control/GUI Lead
- 75' Ali Ezzeldin MI /CV Lead
- 25' Mazen Sakr FM/TDR Lead
- 25' <mark>Asmaa Aboushady*</mark> Media Lead
- 75' Mazen Eldeeb*
- 25' Esmael Saleh
- 25' Abdelraouf Elmaghraby
- 25' Abdelrhman Essam
- 26' Ahmed Elkhereby*
- **26' Mohamed Hisham***
- 26' Ahmed Emad*
- 76' Seif Taha*
- 26' Ahmed Hendawy*
- 26' Mohamed Elsayed*
- 76' Ammar Elsamman*
- 77' Youssef Mahmoud*
- 78' Youssef Taha*
- * Denotes New Members

MECHANICAL ENGINEERS

25' Ahmed Kamel FM

- 75' Jana Ghassan
- 76' Ammar Yasser
- 26' Ahmed Samir
- 31' Retai Tamer

ELECTRICAL ENGINEERS

- 25' Abdelrahman Agaby FM
- 25' Mariam Hesham
- 25' Habiba Hatem Float pm
- 25' Omar Ahmed
- 25' Rodina Ehab
- 26' Mahmoud Reda
- 25' Mohamed Abdrabo*
- 25' Ali Mohamed*
- 25' Abdelrahman Badawy

Distance Travelled: 9,189 Km





Muhammed Salem Abdelrahman Abouklila Asmaa Bhaa

Marvam Mohammed

Abdelaziz Yousry