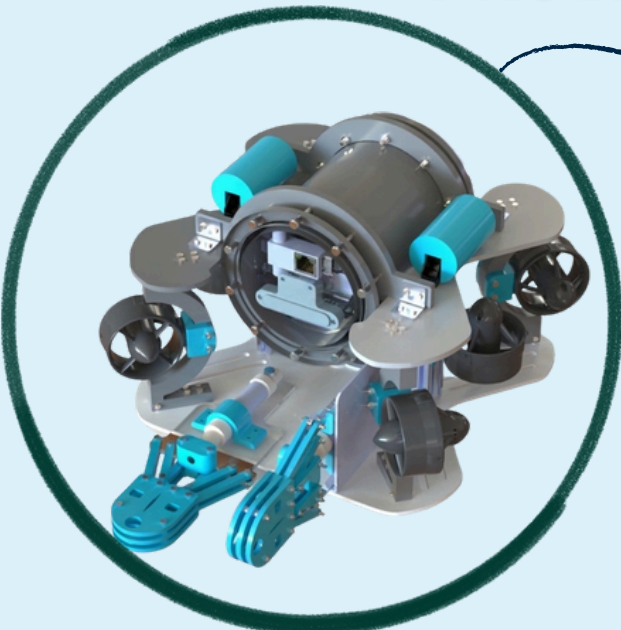


NAUTIX PIONEERS

Vortex Academy



HYDRONAUT

Total Cost: USD \$4114.97

Total Mass in Air: 14.65 KG

Overall Dimensions:

X: 450.95 mm Y: 638.33 mm Z: 326.09 mm

Primary Material: PMMA, PA type 6, PLA and Polyethylene

Total Hours: 2500 hr

SAFETY FEATURES

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

SPECIAL FEATURES

-  Advanced Control System with Nvidia jetson nx & Pixhawk, providing robust vehicle control and various flight modes
-  Nautix UI – Unified and Customizable GUI (Multi-Device Support, Modular Design and User-Friendly Interface)
-  High-resolution real-time imaging from 3 USB cameras and 1 Stereo-camera (oak-d) providing full coverage around the ROV
-  Specialized array of precision tools

COMPANY STRUCTURE

SOFTWARE ENGINEERS

28' Abdelrahman Elsayed***CEO**
 28' Aly eldin Mohamad***FM**
 28' Youssef Khaled***Control Lead**
 27' Youssef Midhat* **Vision Lead**
 27' Mohamed Rezk***Float Lead**
 27' Abdelrahman Ihab*
 29' Nour Osama*
 29' Heidi Ahmed*
 30' Mahmoud Othman*
 28' Ibrahim Ahmed*
 27' Menna Walid*
 27' Serag Mohamed*
 HS' Kareem Ayman*
 HS' Adham Eslam*
 HS' Shahd Ahmed*
 HS' Hana Ayman*
 HS' Ali Eldeen Hassanien*
 HS' Yahia Elgreetly*
 HS' Nada Mohammed*

ELECTRICAL ENGINEERS

HS' Nada Ibrahim* **FM**
 27' Mohamed Salah* **CFO**
 HS' Adham Mahmoud***CTO**
 29' Nour eldin Amr*
 HS' Ather Mohamed*
 HS' Yahia Wael*
 HS' Yassin Wael*

MECHANICAL ENGINEERS

HS' Adham ahmed* **FM**
 HS' Nouredin Mohammed*
 HS' Sofian Ahmed*
 HS' Justin Josef*
 HS' Robel Carter*

MENTORS

Omar Tabouna **PM**
 Salma Hassanien
 Jana Houssam
 Abdelrahman AbouKlila
 Nouredin Hassanien
 Youssef Emara
 Ali Sherif
 Abdullah Fawzy
 Hamdy Ahmed
 Seif Tabouna

LEGEND

Graduation Year

*Denotes New Members

*HS : High School

*PM : Project Manager

*FM : Functional Manager



Figure 2. Vortex Company Photo, By Ahmed Rezk

ALEXANDRIA, EGYPT



YEAR COMPETING: **2ND YEAR**



Distance Travelled: 6990 Km