










VORTEX ACADEMY  
THE ART OF THINKING

Alexandria, Egypt  
Company spec sheet  
1<sup>ST</sup> year participating  
Organizatoin : Vortex






Travel distance : 11803 k.m








## SPECIAL FEATURES :

-  Stereo vision
-  PID controller
-  Six thrusters that provide all necessary degrees of freedom
-  Compact size And light weight
-  Pressure sensor
-  Pneumatically actuated gripper
-  Four cameras for the vision system

## ROV SPECS:

-  Name: MV BEE
-  Total Mass in Air: 19 kg
-  Primary Materials: PMMA, PA type 6, PLA and Polyethylene
-  Total ROV Cost: \$4,338
-  Total roV design person-hours: at least 210 hours per person

## SAFETY FEATURES:

-  No sharp edges.
-  Fuses are used for the main roV
-  Water detection sensor to detect leakage
-  All thrusters are shrouded with meshes that meet IP20 standard
-  Pressure of the pneumatic system is regulated below 2 bars

## COMPANY NAMES

### MECHANICAL TEAM

George Sherif - New - Term 4 - Leader  
 Mazen Mohamed- Pilot - New-Term 6  
 Omar Mohamed -New -Term 6  
 Ahmed Khaled - New - Term 6  
 Ahmed Tarek - New - Term 4  
 Omar El Sherif - New - Term 8  
 Mohamed Fouad - New - Term 6  
 Mostafa Osama - New -Term 8

### SOFTWARE TEAM

Mohamed Salem-CO-Pilot-returning- term 10  
 Mai Allam - Leader - New - Term 4  
 Mariam Gerges - New - Term 4  
 Shaymaa Samak -New - Term 4  
 John Samir - New- Term 6  
 Shady Hany - New -Term 8  
 Mariam Elsamni - New - Term 4  
 Ali Zaitoon - returning - term 8  
 Islam Weal - returning - term 8  
 Mohamed Ali - returning - term 8

### ELECTRICAL TEAM

Thomas Gerges - New / Term 6 - Leader  
 Maryam Mohamed - New - Term 8  
 Mina George - New - Term 6  
 Mina Salah - New - Term 6  
 Mary Anis - New - Term 8  
 Mariam Osama - New - Term 8

### BOARD

Nada ismail - software - CEO-New-fresh grad  
 Ziad Ahmed - Software - returning - term 8

