



# Torpedo Team

## Company Specs

TORPEDO, Alexandria University  
Alexandria, Egypt  
Distance: 12059 Kilometers



Our company "Torpedo" has been established in order to contribute in the field of Robotics, and mainly the industry improvement of marine and underwater vehicles (ROV). Our company participated in:

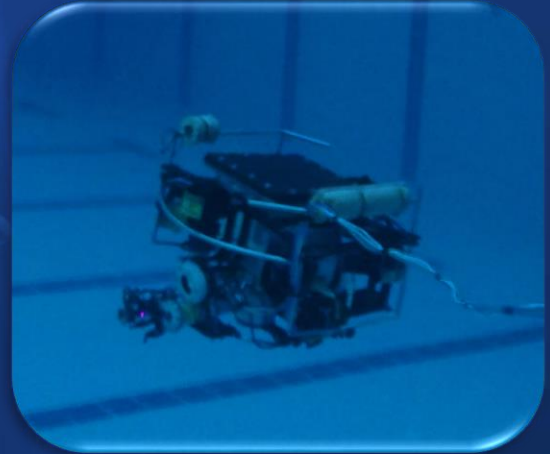
- 2015's local (1<sup>st</sup> place), regional (2<sup>nd</sup> place) and international competition.
- 2016's local (1<sup>st</sup> place), regional (2<sup>nd</sup> place) and international competition.
- 2017's local (1<sup>st</sup> place), regional (2<sup>nd</sup> place) and international competition.

### Company member: (New members marked in orange)

<b>Mostafa Zaky Sharaf</b> Mechanical Engineer, CEO, '18	<b>Ola Abd-Elwanees</b> Electrical Fabrication, '19
<b>Ahmed Ibrahim</b> Electrical Engineer, CFO, '18	<b>Ahmed El-Defrawy</b> Electrical Fabrication, '19
<b>Mohamed Abusetta</b> Electrical Team Leader, '17	<b>Mohab Said</b> Mechanical Team Leader, '18
<b>Karim Genina</b> Surface Team Coordinator, '17	<b>Mostafa Walid</b> CAD Design, '17
<b>Mohamed Yousry</b> Communication Coordinator, '17	<b>Abd-Elrahman Yousry</b> CAD Design, '19
<b>Mohamed Gomaa</b> Co-pilot, '19	<b>Ayman Hamed</b> CAD Design -Tether Man, '20
<b>Ahmed Kassem</b> Software Developer, '19	<b>Mohamed Shaaban</b> R&D, '19
<b>Toka Abd-Elhakeem</b> Camera Specialist, '20	<b>Ahmed El-Erian</b> Fabrication - Diver, '19
<b>Mahmoud Beltagy</b> Software Developer, '19	<b>Hadeer Sadik</b> Mission Specialist, '19
<b>Nevine Said</b> Software Developer, '20	<b>Moataz Gamal</b> R&D – Maintenance, '19
<b>Mohamed Karam</b> PCB Designer, '19	
<b>Moatassem AbdElhaleem</b> Pilot&Media, '20	
<b>Mo'men Amin</b> Electronics & Media, '19	

SuperVisor: DR/Kamel Elshorbagy

## ROV Specs



- ROV Name: **Latro**
- Net Cost: 2,571\$
- Work Hours: more than 2000 hours in total.

### Safety Features:

- Feedback system for thrusters have been applied to the GUI for complete supervision.
- Warning stickers have been placed in front of any probable source of danger.
- A 25 Amp Fuse is connected in surface controller to avoid overload hazards.
- A 2.75 bar adjustable pressure regulator.
- All edges are rounded.

### Special Features:

- Maneuvering speed of 6 Knot
- 16 Kg weight
- One DOF pneumatic multi-function manipulator.
- One rotating manipulator.
- Four analog CCTV Cameras with Wide angles.
- All-in-one control unit that can start the system with a single switch.
- Startup time of 25 seconds.

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