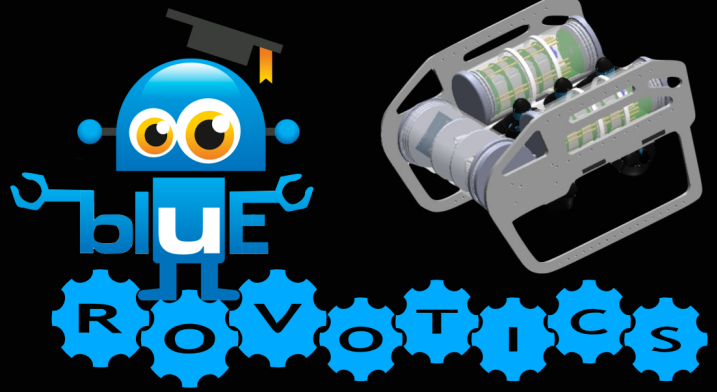




8,205 KM
**DISTANCE TRAVLED FROM
 CAIRO TO ST JOHN, NB**

- ROV Name: Lord Of The Arctic (LOTA)
- Total cost: \$3506.22
- Weight: 10Kg
- Safety features:



Stay Safe! Stay BLUE!

**Arab Academy For Science and Technology
 Alexandria, Egypt**

ROV specs

1. No sharp edges
2. Frame encloses all the ROV components inside it
3. A safety rope is tied to the frame to pull the ROV when needed during testing.
4. The converters have a built-in temperature sensor to shut down the power supply if overheating occurs.
5. A barometer is used to detect any leakage through the end caps of the electronics cans.
6. Two water sensors are installed in each tube to detect any water leakage.
7. A temperature sensor detects any rise in electronic cans' temperature above a certain user-defined threshold.
8. A current sensor is used to monitor the current of each thruster for safety.
9. A kort nozzle is attached to each motor for safety reasons.
10. The control station has a programmed safety section and an auto-shutdown system for any emergencies.
11. A safety button for system power-off and a main 40A fuse are installed in the control station.
12. All the power plugs are covered and all the wires are secured tightly.
13. An I/V sensor is used to monitor and display the total voltage and current consumption of LOTA.
14. The manipulator servos have a separate converter to avoid any system failure if current drainage increased due to jamming.
15. A safety trolley is used to ease transportation.



Company specs

From left to right:

- Zeyad Medhat: Electrical engineer, Co-pilot, Ergonomics director/ year 2/ 2nd year in underwater robotics.
- Ahmed Ehab: Electrical engineer, pilot, CFO/ year 1/ 3rd year in underwater robotics.
- Nouran Soliman: CEO, Co-pilot, software developer/ year 2/ 4th year in underwater robotics, R&D Engineer.
- Maha Moustafa: Mechanical engineer, Tether-woman, Technical writing director/ year 2/ 2nd year in underwater robotics.
- Sondos Omar: Mechanical engineer, payloads-installer, Safety officer/ year 1/ 3rd year in underwater robotics.
- Ahmed Hamdy: Software developer, tether man, R&D Engineer.
- Ahmed Gamal: Mechanical engineer, Tether-man, Logistics director/ year 1/ 2nd year in underwater robotics.

