

# Robert College Makers Spec Sheet

American Robert College of Istanbul, Turkey  
11,040 km [6,860 miles] to the Championship

First time competing in MATE ROV  
Competition and Ranger class.

## Meet The Company

Ufuk Çetiner	12th Grade	CEO	New
Efe Özbal	12th Grade	CTO	New
Ece Yaşyerli	11th Grade	Head of Design	New
Emre Sarıkaya	11th Grade	CPO	New
Önder Karataş	11th Grade	Head of Programming	New
Ada Coşkun	10th Grade	Head of Mechanic	New
Berkman Gülenç		Advisor	New
Can Yılmaz		Advisor	New



## ROV Specs

ROV Name	Aderone
Weight	8.05 kg
Length with Arms	51.5 cm
Length without Arms	34.3 cm
Width	36.5 cm
Height	22.0 cm
Total Cost	2033 \$
Total Hours Spent	750 hours



## Special Features

- 6-thruster vectored configuration with 5 degrees of freedom, consisting of surging, heaving, swaying, rolling, and yawing motions.
- 2 cameras modules placed, viewing the front and bottom.
- Rotatable front camera, which enables 90° field of vision.
- All wiring is labelled.
- Segmented electronics arrangement for neatness and easy access
- Custom hydrodynamic design for increased mobility and maneuverability.
- Modular and custom gripper tips designed for specific tasks and fast switching.
- AI-assisted computer vision module.

## Safety Features

- Electronics in watertight acrylic enclosure with double o-rings seals.
- All systems are tested before launch
- Safety stickers placed all around Aderone.
- Guarded thrusters according to IP-20 standards.
- No exposed wiring.
- No sharp edges on Aderone.
- All metals are non-corrosive stainless steel.
- A 25 amperes in-line fuse to prevent overdrawing current.
- Strain reliefs on both the Aderone and control station