



Arab Academy For Science, Technology And Maritime Transport

Spec. Sheet 2011 Mate R.O.V Competition



Team Specs

Home country: Alexandria, Egypt

Team name: A.A.S.T Team

Distance travelled: From Cairo, EG to Houston, US about 11279.38 Km, 7008.87 Miles

Participation Times: It's our 1st time to join the MATE ROV Competition.

Team Members: (* before name means people who are going to make it to NASA)

NAME	MAJOR	NAME	MAJOR
*Abdulrahman Abul-khair	Mechanical Engineering	Ahmed Elgbaly	Mechanical Engineering
*Ahmed Ramy	Marine Engineering	Mahmoud Farahat	Mechanical Engineering
*Ahmed Zaghloul	Mechanical Engineering	Mohamed Abul-Maati	Marine Engineering
*Karim Gamal	Electronics	Mohamed El-Banna	Mechanical Engineering
*Mohamed Gaber	Mechanical Engineering	Mostafa El-Missery	Marine Engineering
*Mohammed EL-Halwagy	Electronics	Osama El-Sayed	Electrical Engineering
*Mohannad Osman	Mechanical Engineering	Ziad Saaed	Electrical Engineering
*Sayed Abdel-Halim	Marine Engineering	Abdelrhman Barghash	Mechanical Engineering

R.O.V Specs

General description

ROV name: Tahrir.

Cost: about 2,000 \$.

Weight in air: about 10 Kg

Dimensions: Approximately L×W×H 65×35×25 cm.

Material used: PVC tubes, and Artilon Plastic for arm.

Vehicle Description

Thrusters: 6Axial / Lateral converted bilge pumps

2Vertical converted bilge pumps.

Manipulators: 2 functions artilon arm.

Sensors: "Garmin Fish Finder 140" for depth measurement.

Safety features: kort nozzle, isolation by optocoupler, heat sink

Special features: sonar, game pad interface, heavy duty artilon arm, converted bilge pumps, totally self designed manufactured arm.

