



# ROV INDONESIA – INDONESIA

Distance : 16245 KM / 10094 Miles

## COMPANY (SURO)

Abyan (8th grade): CEO, Pilot  
 Prabu (8th grade): Software, CoPilot  
 Rapatih (5th grade): Mechanical, Tether  
 Devan (5th grade): Electrical, Mission  
 Raynar (5th grade): Mechanical, Tether  
 Hima(7th grade): CFO, Mission Management

ROV Indonesia is new division for underwater robot research in Sekolah Robot Indonesia It is First time for ROV indonesia to compete in MATE International Competition, however almost all members in SURO Team are new to this competition. We named our ROV SURO like in our country SURO is shark



Fig 1. Suro Team

Top Row (left to right) Rapatih, Devan, Reinar  
 Bottom Row (left to right) Hima, Prabu, Byan

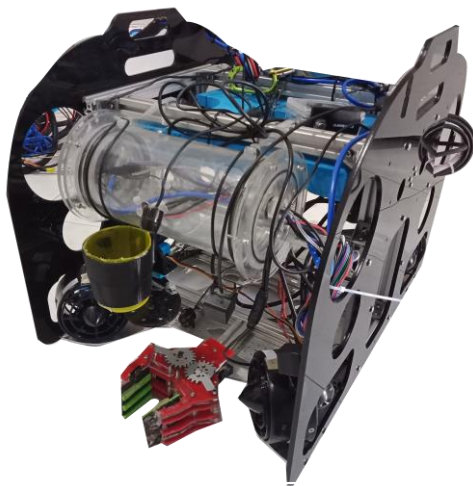


Fig 2. SURO ROV

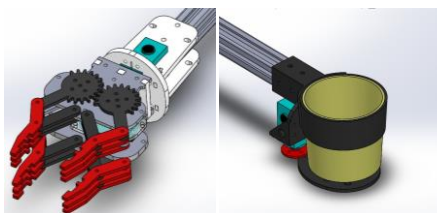


Fig 3. Manipulator / Gripper

## ROV SPEC (SURO-ROV)

**Dimension/Weight:** 58cm tall by 38cm long by 36cm wide; 10kg

### Special features:

- Main Gripper 1 dof
- Glass Gripper
- Own Design PCB
- Omni directional move
- IMU, Temperature Sensor
- Graphical User Interface

### Safety features:

- Waterproof electronics tube
- 25 Amp fuse on the positive side of the main power source
- Emergency Cut Off Switch
- Ampere and volt meter display
- No Sharp Edge
- Strain Relief

Total Cost : \$3200  
 Donate Part : \$1960  
 Cost : \$1240

Total Student hours design and build : 80 hours