

2A04_SUBMARINE

Team-ADROITZ



- **Team Members-**

- Gopal Gupta
- Dinesh Kumar
- Rishi Sharma
- Jaideep Sontakke

- **Mentors-**

- Chintan
- Ranjeet

Project Idea

- Our idea is to make a submarine by using propellers and thrusters. It will perform all the basic task such as pitch control ,yaw control and depth control.

Components

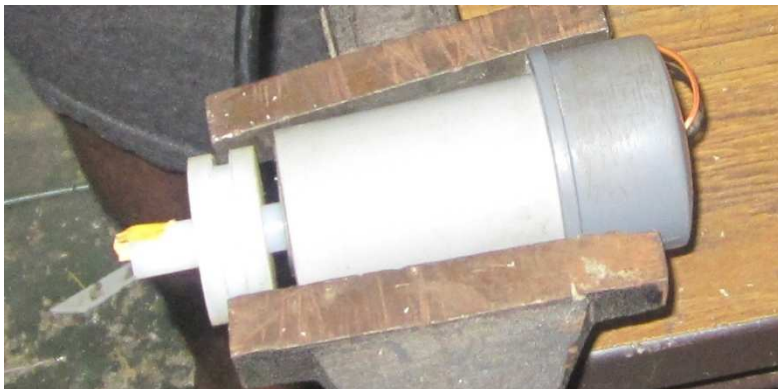
For making waterproof thruster-

- Johnson motor
- Ball bearing
- O-ring
- Nylon cylinder pipe having appropriate lathe work
- Fan blade
- Pvc pipe



How to make Thrusters

It is challenging to make a waterproof thruster, but we are trying for it. We are using press fit nylon cylinder with appropriate lathe work and ball bearing to ensure only rotation not wobbling of the motor. Also epoxy at the outlet of the wire makes it waterproof.



Controls of submarine

Thrusters will perform all the task of controlling . By using Motor driver circuit we can control all the thrusters hence motions of submarine by using differential mechanism

.There will be four thrusters ,two for yaw control and navigation and other two for pitch and depth control.

Thank you