

Team Pravahan

Communications and Automation

06 September 2023

Controls:

- **TASK 1:**Find a 2-axis force feedback joystick which can control the angle of roll and pitch.
- **TASK 2:**Discover the correct simulation platform which is either physics based or data based and also in which we can add noise and easy to use.
- **TASK 3:**Find a sensor/way in which we can control the height of the rudder and stabilise it.
- **TASK 4:**Design the PID controller for the above task and tune it.

Communications:

- **TASK 1:**Design a data acquisition system which can get the data from the sensors and display it. Also display the angle of attack.
- **TASK 2:**Calculate the speed of data transfer for effective data transmission to on-shore team.
- **TASK 3:**Find a way to transfer data in an effective way and also take care of the speed of data transfer.(Focus on getting an optimal speed by transferring only the important data)