



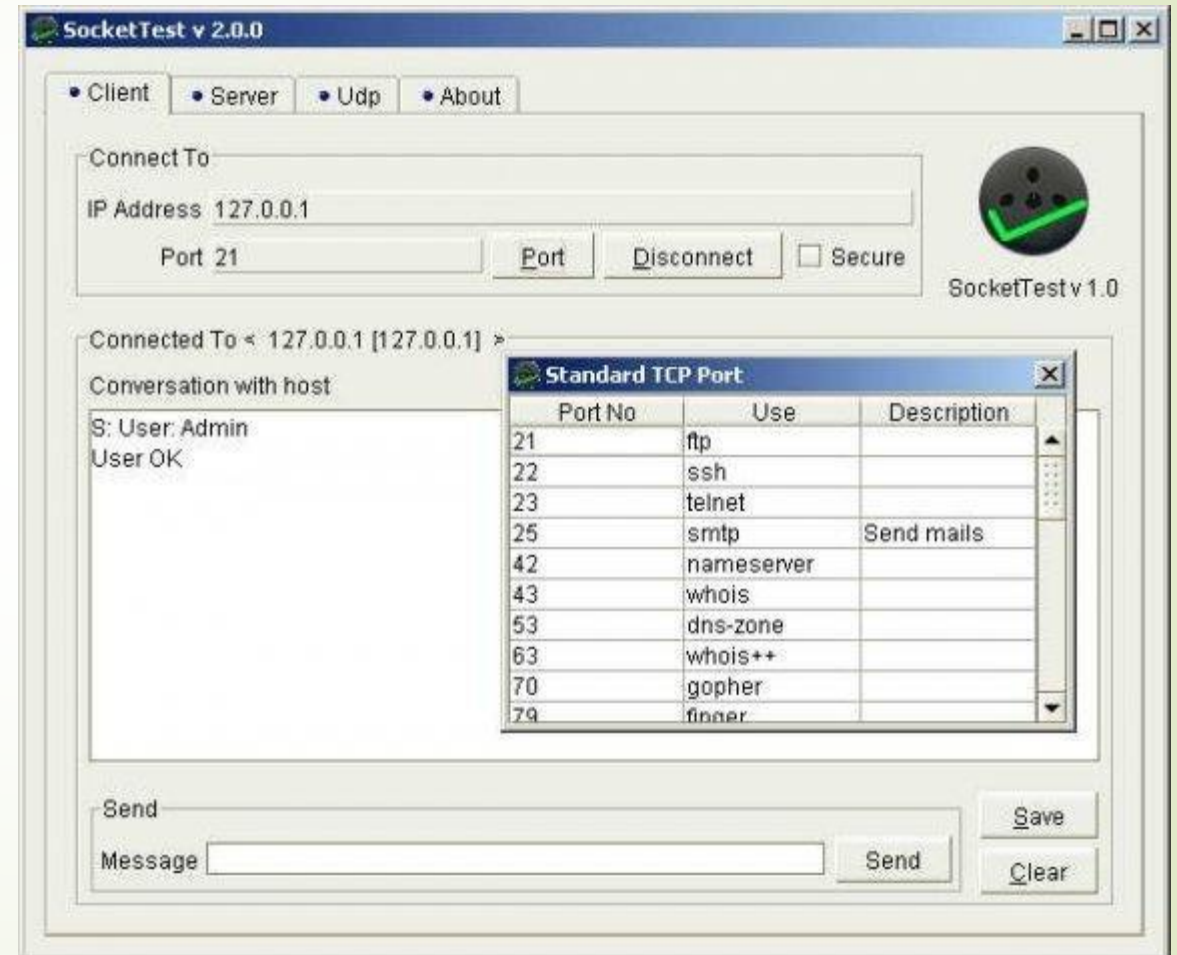
# **NAKUJA PROJECT PROGRESS REPORT INTERNSHIP 2022 WEEK 12**

**FLIGHT CONTROL**

**DERRICK KIRIMI**

# TASKS LAST WEEK

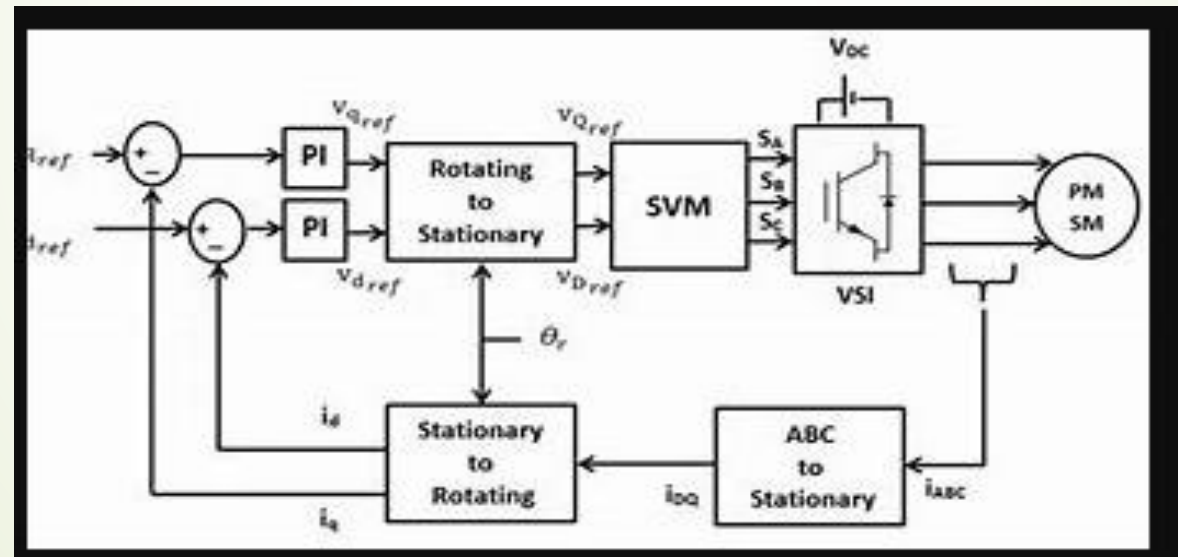
- Sent operational variables Over UDP to track wheel Response during tuning. Collet screw broke.

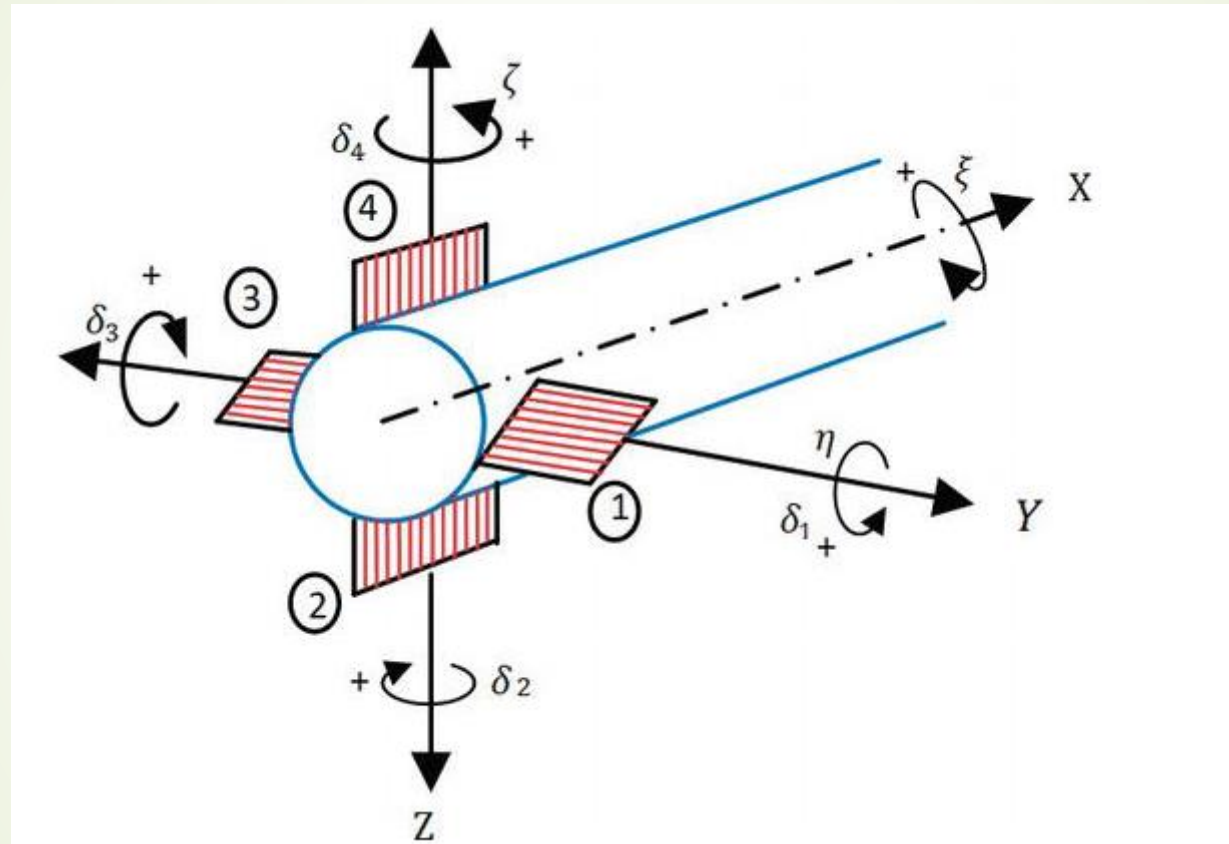




# Brief mention of research topics

- Field Oriented Control of BLDC motors. (SimpleFOC library)
- System Identification through digital datcom.









# TASKS THIS WEEK

- Test Flight.
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# TIMELINE

## Timeline

Month	Week	Tasks
January	Week1	Familiarising with the N1/N2 project Soldering of prototype flight control PCB Research on the design of reaction wheel
	Week2	Design of the N2 reaction wheel Logging of data onto the SD card
February	Week1	Design of the mounting case and safety cage of the reaction wheel
	Week2	Research on Kalman Filter and ways to improve it
	Week3	Libraries overhaul and reimplementation.