Nakuja Internship

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Week 1 progress report
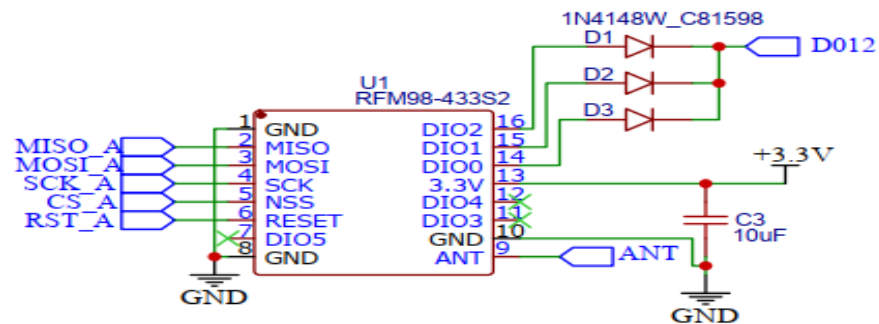
Tasks this week

▶ Get acquainted with Avionics and telemetry resources [Issue #4]

▶ Review computer 1 PCB

▶ Review computer 2 PCB

▶ Research on the necessity of having LoRa Modules on the Printed circuit boards

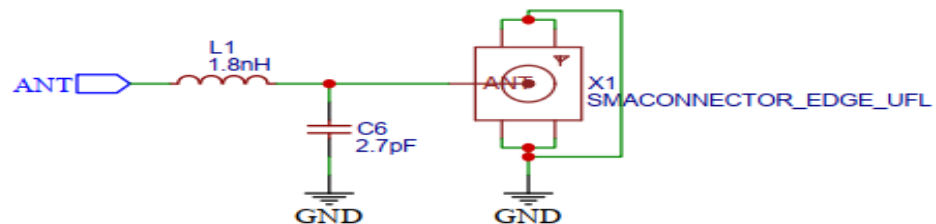▶ Get acquainted with the on board PCBs controlling the telemetry and flight navigation

Findings

- Computer 1 and 2 were reviewed and the was no need for using LoRa modules on board because of speed requirements

LORA MODULE

LORA ANTENNA

Findings

- We instead need to work on designing the relevant Wi-Fi connections required for fast data transmission

- Components such as the MPU6050 accelerometer and the BMP180 have very sensitive data that needs to be cleaned and filtered before being used for decision making

Tasks last week

[#1 Research on data transmission]

[#43 Test and receive over LoRa]

[#44 Test send image over LoRa]

[#48 Test max distance of LoRa]

[#45 Test speed and bandwidth of LoRa]

Tasks this week

[#30 Research on camera module]

[#23 Avionics bay design]

[#18 Launch pad design]