Connected and Autonomous Robotic Systems

Project Advisor: Prof. Kaikai Liu
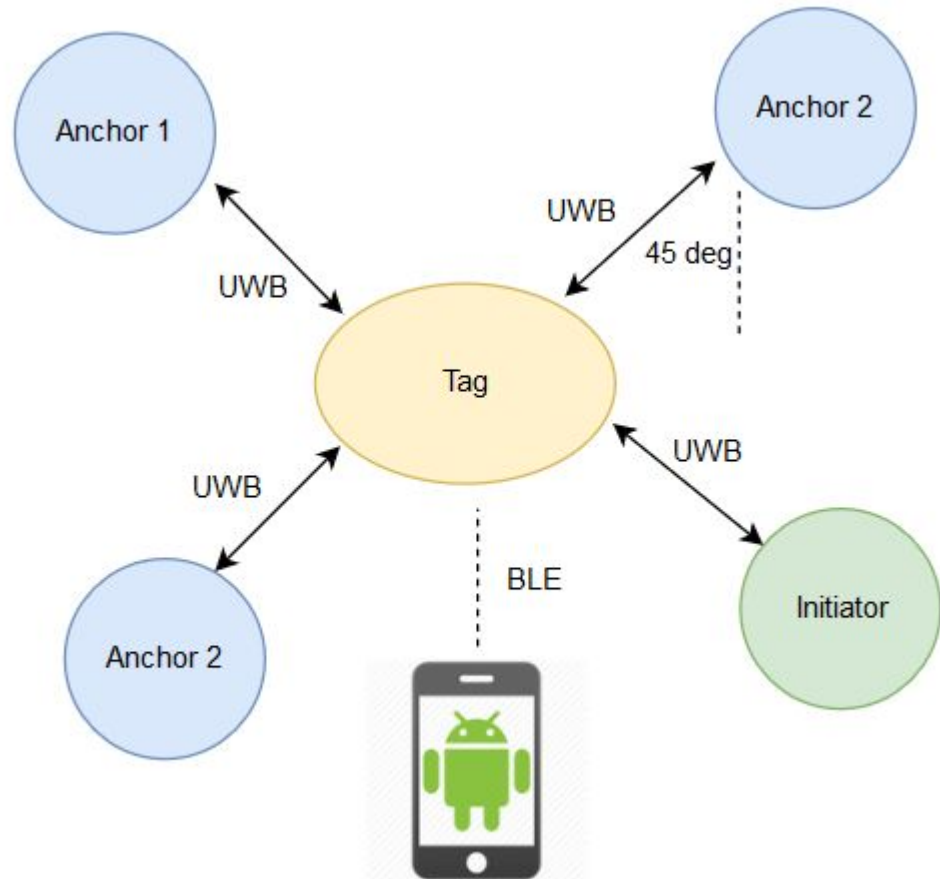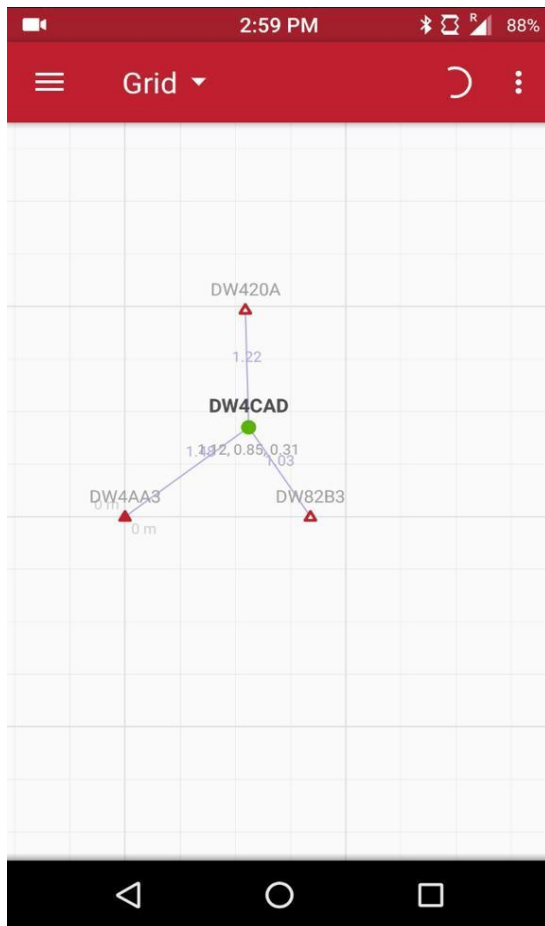
Team Members: Jay Parsana

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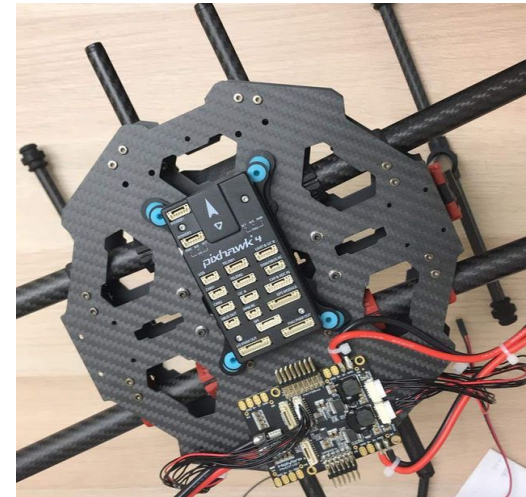
Vatsal Makani

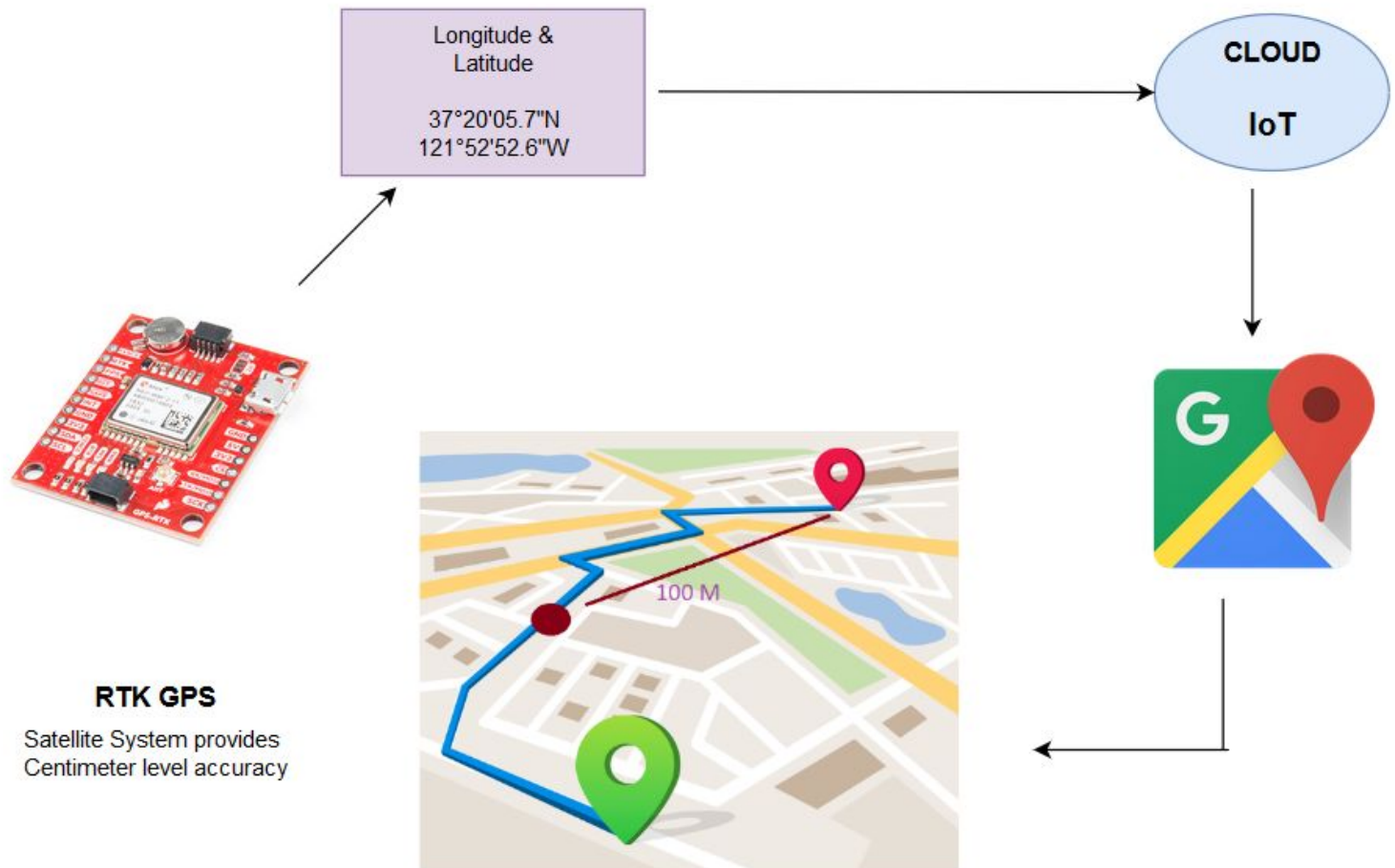# UltraWide Band Beacon

Pixhawk 4

- Open source autopilot hardware.

- Four onboard sensors:

  - Accel/Gyro: ICM-20689
  - Accel/Gyro: BMI055
  - Magnetometer: IST8310
  - Barometer: MS5611

- Runs PX4 software on top of NuttX OS

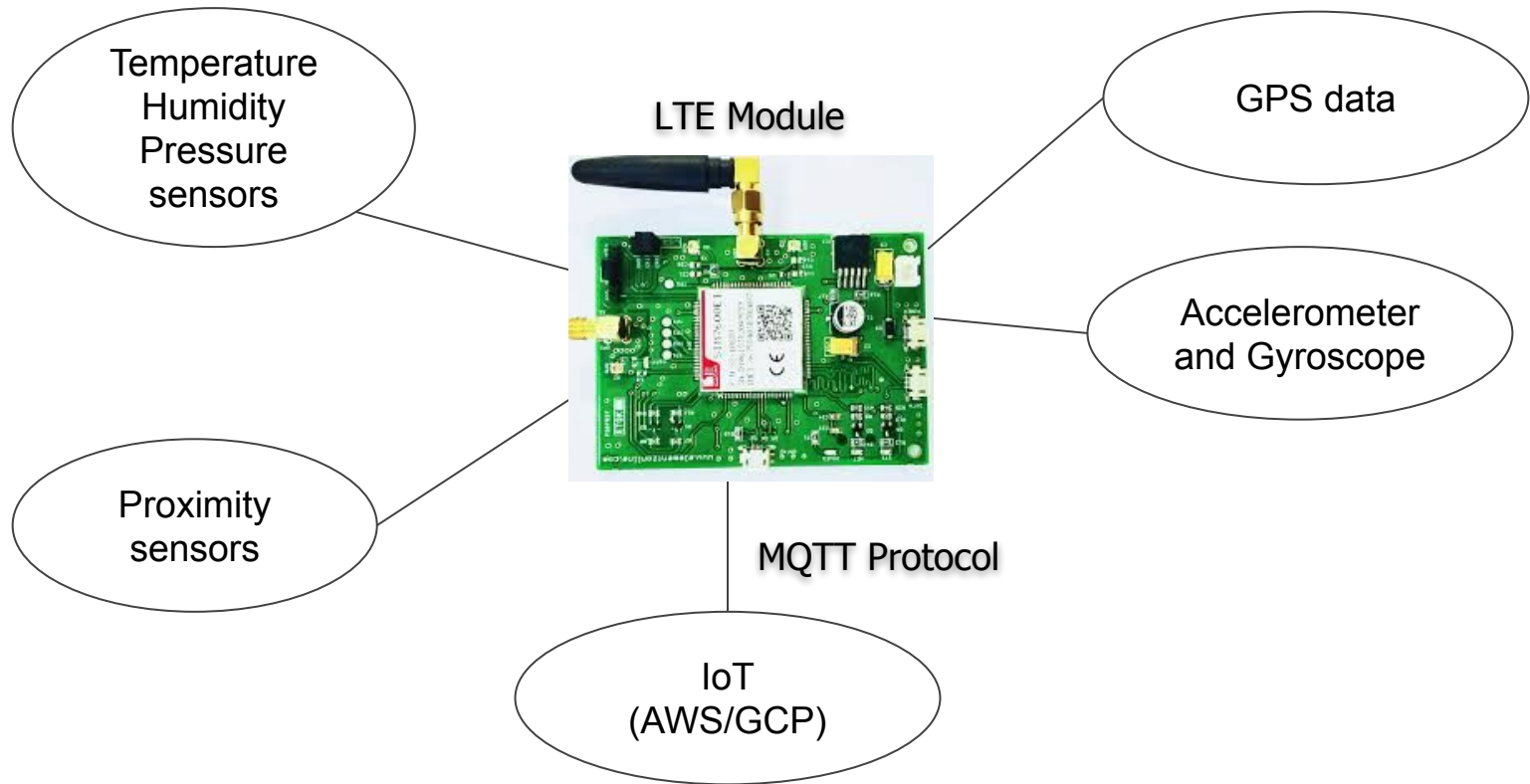- Communicate with Ground Station using MAVLink wireless communication protocol.

MAVLink

GPS Positioning

Longitude &
Latitude

37°20'05.7"N
121°52'52.6"W

CLOUD

IoT

100 M

RTK GPS

Satellite System provides
Centimeter level accuracy

Sensor data and publishing it on cloud using IoT

Thank You