

**1/28/25**

Ricardo Rouco Crenshaw

- What's been done: Electron application set up and running but with no react components
- What will be done: UI will be designed and integrated with the electron app and will be hooked into the backend
- What's been hard: Finding a way to livestream certain types of sensor data

Jacob Stock

- What's been done: Started initial React.js structure and determined the design requirements for the app.
- What will be done: Develop and implement React components for the web app's UI.
- What's been hard: Finding a way the front end with the drone software and to get the data displayed and shifting frontend requirements.

James Montgomery

- What's been done: Setup initial database structure and basic communication functions.
- What will be done: Further define table schema and introduce more functions for integrations.
- What's been hard: Initial database design, ie. required columns and parameters.

Nick Warren

- What's been done: Creating FastAPI backend for generating test data.
- What will be done: Collaborate with James on how the db and backend will be integrated
- What has been hard: Planning for future expansion.

**1/30/25**

Jacob Stock

- What's been done: Still working on React.js structure and environment.
- What will be done: Setting up the connections with the other applications eg. the database.
- What's been hard: Learning React and structure of design.

James Montgomery

- What has been done: fully update database design and added some functionality
- What will be done: add more functions to get / update information
- What has been hard: working with postgres

Cameron Acree

- What has been done: download mavlink library

- What will be done: figure out how to program basic controls
- What has been hard figuring out mavlink language

Nick Warren

- What's done: docker compose
- What's to be done: db persistence and some reworks
- What's hard: SQL alchemy

## **2/4/25**

Ricardo Rouco Crenshaw

- This week I worked on getting the informational site set up and developing the electron framework the front end will live in. Additionally, I also helped Cameron get mavlink working with the simulator

Jacob Stock

- What's been done: Started initial React.js structure and determined the design requirements for the app.
- What will be done: Develop and implement React components for the web app's UI.
- What's been hard: Finding a way the front end with the drone software and to get the data displayed and shifting frontend requirements.

Nick Warren

- Docker works

## **2/6/25**

Jacob Stock

- What's been done: More React connections work
- What will be done: Getting the front-end pages.
- What's been hard: Getting more acquainted with React.

Nick Warren

- Added a bunch of db integrations to the fastAPI thing, got the db to persist in a volume so data saves in the container between runs. Working on even more db helper functions.

## 2/11/25

Ricardo Rouco Crenshaw

- This week Jacob and I got all of the telemetry part of the front end ironed out. We are now focused on getting it integrated in functioning with the backend to display live telemetry data. Next, we will focus on getting the planning widget finished.

Jacob Stock

- What has been done: front end components and piecing out backend integrations
- What will be done: backend integrations
- What has been difficult: Trying to find the best React libraries to use where

Cameron Acree

- what has been done: simmer and arducopter and gave it commands
- what will be done: figure out how to give it continuous commands
- what has been difficult: learning the commands.

Nick Warren

- What is done: Docker Compose, Basic DB and API integrations
- What will be done: Frontend integrations, more API documentation and functions.
- What has been hard: Keeping things modular

## 2/13/25

Ricardo Rouco Crenshaw

- What is done: frontend fully planned out. first screen implemented
- What's being worked on: Hooking front end into the backend, other two screens
- What's hard: nav ball package is mean for react 16 so its a little iffy

Jacob Stock

- What is done: First screen implemented
- What's being worked on: Having the front and backend connect
- What's hard: Finding the correct react component libraries

Nick Warren

- What is done: Swagger Docs for FastAPI, reorganizing backend, model creation
- What is being worked on: Integrating Front End and MavLink to backend
- What is hard: Performance

**2/17/25**

Ricardo Rouco Crenshaw

- What's is done: react gauges rendering
- what is being worked on: nav ball replacement because of versioning
- what is hard: docker container has been slightly painful

Jacob Stock

- What is done: Start of the multiple screen functionality
- What's being worked on: Connections to the database with fastapi
- What's hard: Getting the Docker file all together.

Cameron Acree

- What has been done: Changed movement in sim from distance based to coordinate based.
  - what will be done: take multiple coordinates
  - what has been difficult: learning the ardupilot commands
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