**Microwave Ground Tracking Station  
Engineering Notebook**

**Author/Team Member:**  
Clay Edwards

CS 490 Engineering Capstone I

Date: 01/11/2024

|  |  |  |
| --- | --- | --- |
| **Date:**  01/11/23 | **What was accomplished:**   1. Project start and team planning for semester | **Completed By:**   1. Me |
| **Date:**  01/16/24 | **What was accomplished:**   1. Progress start on contingency development | **Completed By:**   1. Me |
| **Date:**  01/18/24 | **What was accomplished:**   1. Updated product vision and contingency | **Completed By:**   1. Me |
| **Date:**  01/23/24 | **What was accomplished:**   1. Finalized product vision 2. Updated project focus and begun additional research | **Completed By:**   1. **Me** |
| **Date:**  01/25/24 | **What was accomplished:**   1. Hardware changes and plans for purchase | **Completed By:**   1. **Me** |
| **Date:**  02/1/24 | **What was accomplished:**   1. **Additional research on software** 2. **Switch to matlab as focused software** | **Completed By:**   1. **Me** |
| **Date:**  **02/6/24** | **What was accomplished:**   1. **Documentation for srs/sdd** 2. **RF block updates and planning** | **Completed By:**   1. **Me** |
| **Date:**  **02/8/24** | **What was accomplished:**   1. **Sprint 1 demo slides** | **Completed By:**   1. **Me** |
| **Date:**  **02/11/24** | **What was accomplished:**   1. **Sprint 1 demo** | **Completed By:**   1. **Me** |
| **Date:**  **02/13/24** | **What was accomplished:**   1. **Demodulation research** 2. **Contingency became primary focus and production focus shift to that** | **Completed By:**   1. **Me** |
| **Date:**  **02/15/24** | **What was accomplished:**   1. **Demodulation coding and research** | **Completed By:**   1. **Me** |
| **Date:**  **02/19/24** | **What was accomplished:**   1. **Practice of demodulation on wave files** | **Completed By:**   1. **Me** |
| **Date:**  **02/22/24** | **What was accomplished:**   1. **Research on needs of the ground station and part list generation** | **Completed By:**   1. **Me** |
| **Date:**  **02/27/24** | **What was accomplished:**   1. **Testing of in lab equipment and recording of data** | **Completed By:**   1. **Me** |
| **Date:**  **02/29/24** | **What was accomplished:**   1. **Assisted with signal communication testing of the antenna** | **Completed By:**   1. **Me** |
| **Date:**  **03/05/24** | **What was accomplished:**   1. **Documentation revisions** | **Completed By:**   1. **Me** |
| **Date:**  **03/07/24** | **What was accomplished:**   1. **Sprint 2 demo** | **Completed By:**   1. **Me** |
| **Date:**  **03/19/24** | **What was accomplished:**   1. **Boeing presented to class** | **Completed By:**   1. **Me** |
| **Date:**  **03/21/24** | **What was accomplished:**   1. **Plan for lab testing and ground station evaluation** | **Completed By:**   1. **Me** |
| **Date:**  **03/26/24** | **What was accomplished:**   1. **Final plans and needs made for the ground station. Meeting with groupmates for to plan the final push of sprint 3** | **Completed By:**   1. **Me** |
| **Date:**  **03/28/24** | **What was accomplished:**   1. **Documentation revisions** | **Completed By:**   1. **Me** |
| **Date:**  **04/02/24** | **What was accomplished:**   1. **Soldering of connection pieces to rf block** 2. **Demod research** | **Completed By:**   1. **Me** |
| **Date:**  **04/04/24** | **What was accomplished:**   1. **Partial assembly of ground station and part list creation** | **Completed By:**   1. **Me** |
| **Date:**  **04/09/24** | **What was accomplished:**   1. **Final Assembly of ground station and movement of the station** | **Completed By:**   1. **Me** |
| **Date:**  **04/11/24** | **What was accomplished:**   1. **Gnu radio demodulation research and testing. Documentation revisions** | **Completed By:**   1. **Me** |
| **Date:**  **April 14-28, 2024** | **What was accomplished:**   1. **Marine Corps military training** | **Completed By:**   1. **Me** |