Jared O’Shea

CS491 Capstone II

Engineering Notebook

Team Initials:

IW – Ian Wolfe

CE – Clay Edwards

CO – Christian Ogburn

JW – Jordan West

JS – Jusefs Saade

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| **DATE** | **WHAT I DID** | **WHO WAS THERE/INVOLVED** |
| 1/16/24 | * Met during class time to discuss Product Vision and semester backlog * Tried to go to Dr. Rojas’ office to get a meeting time since we got no response on an email, he was not there * Revised product vision * Added items to Sprint 1 backlog | * All team members |
| 1/18/24 | * Met during class time to give overview of semester goals to Dr. Akbas and Dr. Yang * Added new T/A and professor to Github * Team received response and estimate for positioner | * All team members |
| 1/23/24 | * Met during class time to discuss semester plan to T/A’s * Recurring meeting time with Dr. Rojas set for Wednesdays at 10:30 am * Worked on revising Product Vision to include plans for contingencies in the case of setbacks or unforeseen circumstances * Added items to backlog | * All team members |
| 1/24/24 | * Meeting with Dr. Rojas cancelled due to him being in Texas, purchase delayed | * All team members |
| 1/25/24 | * Met during class time with entire team to discuss progress and next steps | * All team members |
| 1/30/24 | * JT O’Keefe was assigned as new main point of contact by Dr. Rojas * Met in LB331 lab with JT to go over next steps * Discussed specific tasks for each team member and looked at design and testing for RF Block, SDR, GUI, and antenna | All team members present   * My tasks include SDR testing and optimization |
| 2/1/24 | * Met in normal class with team to clean up backlog, assign tasks and deadlines, and discuss next steps with professors | * All team members |
| 2/6/24 | * Met with team in LB331 lab to continue work and plan presentation for 2/8/24 * Worked with IW to complete SDR testing by creating a signal with FPGA board * Brought equipment from Micaplex to LB331 for easier testing and assembly in future | * All team members met * With IW for SDR testing |
| 2/8/24 | * Sprint 1 Demo | * All team members |
| 2/13/24 | * Met with team during class time and discussed adjusted project scope and backlog for sprint 2 * Made major changes to SDD and backlog | * All team members * Worked on SDD and backlog with CO |
| 2/15/24 | * Met with JT in WiDE lab to get information on RF block design and steps moving forward * Received hardware from WiDE lab * I am moving forward on testing SDR with MATLAB | * Me, JS, CO * Worked with IW on SDR testing |
| 2/20/24 | * Decided against MATLAB for SDR software * Decided on using SDR Sharp for SDR * Familiarized with SDR Sharp | * Me, IW |
| 2/22/24 | * Tested SDR with SDR Sharp software, testing with fake FPGA signal * Installed Sat32PC for tracking * Familiarized with Sat32PC | * Me, IW, CE |
| 2/27/24 | * Added SXM satellite line elements to Sat32PC database * Further testing with Wi-Fi and FPGA signals | * Me, IW |
| 2/29/24 | * Planned sprint 2 demo with team * Unable to get parts for positioner currently | * All team members |
| 3/5/24 | * Sprint Demo with team, then met to discuss further plans | * All team members |
| 3/7/24 | * Worked on some documentation to update SRS and SDD and test plan * Discussed backlog for sprint 3 and assignments | * All team members * Me and IW on software items |
| 3/19/24 | * Talked with JT to discuss progress and the final product goal with the current state | * All team members separately as groups |
| 3/21/24 | * Waiting on adapter to do further SDR testing, unable to make testing progress, updated backlog and checked scrum progress | * Me |
| 3/26/24 | * Acquired COAX adapters need to connect to antenna * Ordered new power cable and adapter for computer controller for positioner | * Me, IW, JS |
| 3/28/24 | * Tested Wi-Fi signals with antenna and read through SDR Sharp * Waiting on power cable and adapter (should be here next class) | * Me, IW, CE |