

Engineering Notebook

| Date | Notes |
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| 1/11/2024 | The first day of class, met briefly with TA's to clarify that the team cohesion is currently in good standing. |
| 1/16/2024 | Worked to convert GNU RADIO into useable Python Code |
| 1/18/2024 | Continued to convert GNU RADIO into python, currently having issues with python modules but once resolved should finish swiftly. |
| 1/23/2024 | Python issues lie with the the imported modules but overall code should work in compliance to GNU RADIO. |
| 1/25/2024 | Uploaded the python code to Github, started to work on message verification on the ESP32 Bluetooth system |
| 1/30/2024 | Continued to work on messag verification on the ESP32 Bluetooth system, Had issues figuring out how to check whenever a new message was sent since the ESP32's are on a loop so instead started to work on message prediction to see if the message was what it was expecting. |
| 2/1/2024 | Implemented the Message Predictor as stated in 1/30/24 |
| 2/6/2024 | Boeing in Town, Presented our workstation and progress |
| 2/8/2024 | Formal presentation to Class |
| 2/13/2024 | Fixed ESP Message prediction and began the steps necessary to implement call/response between server/client |
| 2/15/2024 | Continued ESP 32 Call/Response, Briefly Worked with Collan on the ESP32 Audio testbed. Informative meeting with Boeing on focusing the scope. |
| 2/20/2024 | Documentation update to fix format issues. |
| 2/22/2024 | N/A not in class |
| 2/27/2024 | Successfully found a BTLE packet transmitted from the ESP 32 Test Bed, Will continue to work to attempt to extract any possible data. |
| 2/29/2024 | Email Dr. Akbas and Dr. Yang for after class Boeing presentation and worked towards finishing documentation on SRS and SDD |
| 3/5/2024 | Presentation Week, watched and finished presentation that occurs 3/7/2025 4:00 to beeing engineers. |
| 3/7/2024 | Presentation |

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| 3/19/2024 | ADTP Bluetooth device test bed assistance with Connal, Microbits finally arriving while be collected thursday. |
| 3/21/2024 | Issue with Audio Profile connecting to mobile device/compiling errors with arduino (Connals Machine switched to Mine), attempted to instead make an esp32 client to receive the audio data. |
| 3/26/2024 | Audio esp32 client testing along side server. |
| 3/28/2024 | Trying to understand the metadata extracted from the Audio system with connal |
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