CC3501 Weekly Report

**Group number:** 2 **Team members:** Ethan Waters, Lachlan Pryce  
**Week number:** 12

**Progress this week**

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Who did it?** | **What were the outcomes?** | **What did you learn?** |
|  | Lachlan |  |  |
| Implement CAN bus driver | Ethan | Found open-source driver for MCP2515 and RP2040. Read through source code to understand how to implement. | How CAN Ids can be utilised to prioritise data being sent. |
| Write main for RP2040 Master Node | Ethan | Requests sensor data and packages it in a way suitable for transmission. |  |
| Write main for RP2040 node | Ethan | Listens for request and sends sensor data back to master node |  |

**Overall project tracking:** [fill this in at the beginning of the project and update weekly based on actual progress]

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| --- | --- |
| **Week number** | **Milestones** |
| 1 | Confirm project topic and begin |
| 2 |  |
| 3 | Arm can move with an input from a socket. The input is an automated test script executed by a client to mimic the embedded system output |
| 4 | Select components & review datasheets |
| 5 | Begin schematic |
| 6 | Complete Schematic, forward to Bronson for feedback. |
| 7 | Submit complete schematic to Bronson for feedback. Complete PCB design for feedback, |
| 8 | Submit board for manufacture. |
| 9 |  |
| LR | Work on vision based movement with PI while waiting for embedded systems. Work on sensor calibration and Kalman filter code. |
|  |  |
| 11 |  |
| 12 |  |
| 13 | Demo day during Friday lab |