CC3501 weekly report template

**Group number:** 2 **Team members:** Ethan Waters, Lachlan Pryce, Stuart Beattie  
**Week number:** 1 – 5

**Progress this week**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Who did it?** | **What were the outcomes?** | **Who did the peer review?** | **What did you learn?** |
| Develop Python script capable of moving robot arm | Ethan | Robotic arm can move based on PyNiyro library with hard coded python script | Lachlan & Stuart | Arm can move |
| Setup server client with datagram socket connection to get data (input for robotic arm movements) from different clients. Created automated testing / reset scripts to executed by a client and sent data over socket | Ethan | Robotic arm can move based on commands from client. Can be multiple clients | Lachlan & Stuart | Arm can move based on data mimicking the format that is expected output from embedded system |
| Setup Git and Onedrive | Ethan | Setup Git and Onedrive | Lachlan & Stuart |  |
| Setup microcontroller with ESP32 chip and integrate with sensor | Ethan | Can receive data from sensor | Lachlan & Stuart | Arduino IDE is terrible, will complete proper software setup with vscode in future. |
| Acquire code for implementation of Kalman filter and adapt for situation | Ethan | Implement optimal estimator of angle | Lachlan & Stuart | Should have done IOT. |

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

|  |  |
| --- | --- |
| **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 |  |
| 5 | Complete implementation of Kalman filter to observe difference and work with data. Re-Choose IMU and Microcontroller |
| 6 |  |
| 7 |  |
| 8 | Submit draft schematic to Bronson for review (the earlier the better) |
| 9 | Final PCB design submitted on Friday to Ben or Joesf for manufacturing |
| LR |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 | Demo day during Friday lab |