CC3501 weekly report example

**Group number:** 2 **Team members:** Hunter Kruger-Ilingworth, Thomas Mehes, Quentin Bouet   
**Week number:** 7

**Progress this week:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Who did it?** | **What were the outcomes?** | **Who did the peer review?** | **What did you learn?** |
| Load cell testing | Hunter |  | Quentin |  |
| Debugging, Pauses and character sending with pico. | Quentin | After numerous issues setting up debugging was able to send breaks simply setting uart\_set\_break() to true then false. Also able to send characters such as “?” | Thomas | Oscilloscope confirmed “break” was working correctly and waiting for >12 ms before sending message. |
| Added Transceiver to schematic | Thomas | …. | Hunter |  |
| “Conceptional progress” | Laurance | We were informed of many problems, a few solutions and importantly pointed in the direction of progress. | Hunter, Quentin, Thomas | SDI-12 has inverted bit values to UART, RP2040 voltage range isn’t large enough to send SDI-12 on its own. |

\*\*\*\*\* MAYBE: add whiteboard design plan to this document? Useful to look back on imo.

**Overall project tracking:**

|  |  |
| --- | --- |
| **Week number** | **Milestones** |
| 4 | Confirm project topic |
| 5 | Begin Overview and planning |
| 6 | Hardware design: Microcontroller, DAC, SD card, flash and usb interface |
| 7 | Hardware design: Voltage regulators, SDI-12 interfacing and Informal check with Laurance |
| 8 | Hardware design: finish PCB layout and review to make sure all design rules pass. Submit draft schematic to Laurance for review.  Begin Software |
| 9 | Implement fixes to the PCB.  Final PCB design submitted on Friday to Terence |
| LR | Software: Begin development that doesn’t require hardware testing |
| 10 | Hardware: Solder components to PCB and begin interfacing  Software: Coding to receive data from SDI12 sensors & I^2C DAC |
| 11 | Software: data logging applications including averaging, variable sampling periods and clean exported data. |
| 12 | Verify all hardware functionality, perform testing of existing software on the physical board. Polish the software. |
| 13 | Implement final bug fixes.  Write the report.  Demo day during Friday lab. |