

EE CprE SE 492 - MAY15-28
MicroCART Senior Design Team

Meeting Minutes - Week 2

January 19, 2015

Attendance:

Team Members:

Paul Gerver
Joe Benedict
Adam Campbell
Jacob Rigdon
Matt Vitale
Matt Post
Ravi Nagaraju
Tyler Kurtz

Advisors:

Dr. Phillip Jones
Paul Uhing

Agenda Items and Discussion

- 1) New team goals - task groups
- 2) Bluetooth
 - Baud rate was increased to ~1Mbps
 - data is still dropping - latency tests will be performed to debug this issue
 - New connectors/wires have been placed on the quad
 - Possible issue with ESC power - Joe will look into it
 - Discussion of memory reads/writes and how the 512MB of RAM can be used to store then send collected data to base station.
 - Linux could be used to allow for writes to SD card filesystem
- 3) Revisiting Sensor Board
 - Matt P and Paul will be looking into how the output can be more reliable and corrected over time
- 4) Data logging is a high priority
 - Rohit has put work into making a set of data logging scripts
 - Ravi and Tyler will take the lead on working our data into this system

5) Reminder that documentation is important to make our work relevant to the future of MicroCART

6) Task Groups

- Data Logging - Ravi and Tyler
- Bluetooth – Adam
- Base Station Automation - Matt V
- Sensor Board - Matt P, Paul, and Tyler
- Documentation - Joe and Jacob