

8 March 2016 – Weekly Meeting

- ASEE Paper submitted
 - Good feedback from Ptucha
- **Get into ARM Day – Deadline: March 18th**
- Dr. Destler's Access and Inclusion Technology Challenge
 - Submitted proposal and we were accepted
 - I will get all criteria and deadlines in order
- Next 2 demos scheduled
 - Week 8 Demo
 - Thursday → 17 March 2016: 9-10 AM
 - Week 11 Demo
 - Thursday → 7 April 2016: 9-10 AM
 - Is this ok with everybody?
 - I will send out email to all stakeholders
- Spring Break?
 - Cody – **BACK THURSDAY**
 - Mike – **Going home. Unsure of what dates. BACK AT SOMEPOINT**
 - Dave – **Going home for whole week. Unsure of return date. GONE ALL WEEK**
 - Eric – **Gone all break for Crew. GONE ALL WEEK**
 - Jess – **Gone the whole week. GONE ALL WEEK**
 - Alex – **6 hours a day**
 - Joe – **Looking to go home for long weekend/maybe more**
- Individual Tasks
 - Mike – PPWS
 - How's the LiDAR? Issues, concerns, etc.?
 - **Point cloud showing**
 - **Laser scan**
 - **Display ranges from laser scan**
 - Dave – ODS
 - How's it going? Issues, concerns, etc.?
 - **Current side is appearing to cover whole side**
 - **Doesn't work off of 3.3. Has to be 5. Can be triggered off 3.3 but power ground off of 5.**
 - **Issue seeing Alex when he was wearing sweatshirt**
 - **Maybe modify code – find threshold and determine sampling time and send back serial seeing if occupant**
 - **How it works with two ultrasonics together**
 - Jess – Ultrasonics testing
 - How's it going? Issues, concerns, etc.?
 - **Tested 4 of them and seem to be doing well**
 - **Still need to take the connectors off**
 - **Wiring up ultrasonics now**
 - **Need to fix ROS Serial to test**

- Need to adjust ultrasonics dates in schedule
 - Ultrasonics to arrive April 1st-19th
 - Looking into best option
- Alex – PCB
 - Nice work on the PCB. Update anybody's concerns
 - 2 Layer Board
 - Adding components on DigiKey - \$80 as of now – will probably be \$100
 - Board Price – Just over \$100 and delivered in 8 days (stateside)
 - 2 Boards and components worth
 - Concern
 - Having access to USB port if Arduino is flipped
 - Unsure of IMU Arudino location?
 - Don't know if light and sounders controls will work
 - One buzzer and driving with mosfat
 - **Order by end of this week**
 - When can we have this printed? We need this...
- Cody – Finishing up communication between computer & arduinos
 - ROS
 - ROSSerial
 - **Difficult and goal by end of the week is to finish it up**
 - GPS
 - Working in regular mode (non RTK)
 - RTK – not in immediate future
 - Pulling correction
 - Waypoint Following Control
 - Main programming for autonomous
- Eric – Vehicle Simulation / Ultrasonics Mount
 - How's the simulation going?
 - Project different regions for 2D space
 - Stop
 - Ask for re-route
 - Circular arcs depending on speed and steering angle
 - We need to make a decision on the ultrasonics mount
 - Push back on current design due to our scenario
 - Order back bumper to put on front - \$100
 - Work within current bumper
 - 4 underneath
 - 3 up top
 - What was Mike's feedback
 - Let's talk to Ptucha and get it done.
- Joe – Need some technical tasks. Any ideas?
- **Other Issues/Worries**

- I think we need to focus our attention off of the individual EE tasks and onto the sensors
 - Collect actual data
 - Getting into obstacle detection
- How close are we to getting the cart on the ground moving to collect sensor data?
- We need system diagnostics in place
 - Need to establish communications between arduinos and computer first
 - Will then work on system diagnostics
- People have asked about adding tasks to the schedule
 - Email me a list of tasks
 - Along with estimated hours to complete each of the tasks
- I will also send everyone an individual schedule
 - Please review the schedule and let me know if something missing
- Remote Control: Steering issue (Wicked)
- RIT RISK MANAGEMENT for testing outside
- Joe – Need to contact Heather about barriers for Imagine
- Have someone driver certified?
- Joe - Email Ptucha about ultrasonic mount
- Joe - Monitor Risks and cross out old ones and determine any new ones or ones coming up
- Joe - Update 2007 MS Project Schedule on EDGE
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