PROTOCONTROL  
MEETING 01/30/24

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# Agenda

## Goal: Where we want to be by status review next week on 02/07/24

Round table - how is everyone feeling about the project?

* Abisha and I talked about me taking on one of the I2C components, I’d be happy to help with if that’s okay with everyone - Nida
* I was going to work on the MSP430 last semester but Parker and I talked about it during finals week so did not have time then but I can start that soon, just let me know if that’s something we should have progress on by 02/07 - Nida
* Refine embedded system & integration
  + Working with alot of other subsystems
* Scanning for peripherals
  + Algorithm
  + Need website integration
* How many PCBs should we plan on?

What can we do differently in general?

* Work on assignments earlier
* Meetings for just working on project
* More organization around tasks
  + Team senior design calendar
* Reorganization / as needed help
* Subsystem status
  + Embedded
    - Only three components working, need to expand class
      * Digital and physical components
    - IOT connected google servers
      * Iot works
  + Website
    - Set parker up with environment
      * Parker work with will
  + Peripherals
    - Some working on independent scripts
    - Nida work on I2C components
  + PCB
* Component PCB will be ready tomorrow, just need to make sure the resistors for the address lines are at the right place
  + Form factor
  + mounting
* I will check it with Carlson too by the end of the day tomorrow so that I can send the files to the manufacturer
* Let me know what changes in the enclosure in case the current PCB does not fit in the new design
* I will start the power related stuff on the board (power port and pins) on Thursday so that we can have those ready by 02/07
  + Enclosure / power
    - Want to design and print new enclosure
    - Want to calculate power budget for full system as it stands now
  + Integration
    - Need time to all sit down and work together

Should we rearrange or refocus efforts on specific subsystems?

* Everything is intermixing with everything

Is extra backup needed for any subsystem?

* I can take extra work, there is really not much going on in PCB design right now unless I am missing something (Nida)

Are any subsystems stuck waiting for other subsystems?

## Yes, embedded and i2c components (parker and Abisha) need a test server to meld inextricably the code for i2c components and main protocontrol script

## Tasks for the next month

* By status review 02/07
  + New enclosure designed - (km, might need parkers help)
  + Full system power budget with modes - (km, nida)
  + IOT communication working - (will, parker, nida)
  + System for managing tasks (calendar) - (km)
  + Get the keypad working - (Abisha, nida)
  + I2C Scanner in Embedded Code, detect the pin expander (Abisha, Parker)
  + Set up onshape (km, parker)
* By status review 02/21
  + I2c components working from website selection
  + Website sending GENERATED serial commands via IOT
* By Alpha Demo
  + Website communicates w protocontrol via IOT
* By status review 03/20
* By Beta Demo
  + User trials started
* By status review 04/10

**Extras:**

**Cad software:** Onshape (free, can do fusion 360 stuff, easy to collaborate)