### Senior Design Meeting Minutes

### Date: 9/19/23

### Agenda

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### Upcoming Deadlines

* 9/22 System Architecture Diagram

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### Updates/Things to Discuss

### Personal goals for the project

* + What skills do we as individuals want to be able to build / get from senior design?
  + How do we avoid one person getting dumped with managerial tasks or some people taking on too much work
  + We could perhaps incorporate the skills we are personally interested in
  + Will~leave SD with a polished project, contacts, and a job offer
  + Nida~PCB design, embedded systems, Nida hates Autocad
  + Parker~PCB design, hardware
  + Kelly Mae~ embedded encryption, systems level design, integration and test
  + Learn to figure out things we don’t know
* Goals for october event
  + Small samples of end design that are all inclusive
    - Show machine learning that identifies components
  + Software Demo 1:
    - Draw image→interpreted as real components
    - Get napkins and test with napkins
  + Hardware Demo 2:
    - 1 MCU + one of each input (button, slider) + connect to LED
    - Buy components soon
    - CAD
    - How important is location on the panel
  + How can we prompt questions w/ impressive answers
  + Beautiful Poster
  + Any analog/digital components
* Custom designed pin expander
* Design of product
  + What does it look like
  + What elements does it have
  + What subsystems are needed
* Develop clear structure for the project
  + Clear structure through october event
  + Begin talking about structure after october event
* System architecture drawings
  + What do we do the System Architecture drawings on (Abisha)

### Question to Consider

### Rough Timeline/Milestones

### What Tools Do We Need to Learn?

* + What information would we need from the customer
  + Breakdown of each subsystem + milestones
  + Really, what kind of client are we targeting (not necessarily the industry but scale of the device)
  + Rated for DoD?
* Pitch Project at Career Fair (20th and 21st)
  + One-pager
  + Get suggestions for the project
  + What do they need from us
  + Domain name
* Make Touchscreen Version first, then make the enclosure
* 3D modeling?
* Entrepalooza funding we can apply for (guy named Josh)

### Action Items

* Touch Base on Thursday (discord)
* Talk to Jeremy after class Thursday about using off-the-shelf components/code
* Find components
  + Look for ones with a breakout board
  + Sensors (audio
* Make a list of parts we might want to make
* Draw i/o components (pdf, jpeg)
* Break down the tasks that remain + documentation
* Email Josh
* Eventually make a timeline for October