**Format of this Document**

Core Idea that Needs to go on the Poster

Anecdote that we need to say out loud

Multimedia or Live Demonstration

\*\*Let’s try not to whiplash the audience with too many visuals (or be very careful to hold their hand through all the transitions)

**Project Background/Customer Need/Purpose of the Project/Problem At Hand**

* User Interfaces are one of the most time consuming and expensive stages of product development
  + Kelly Mae’s Story about Summer Internship
  + Statistic About Time it Takes
  + Team UI design percentage

**Product Requirements**

Our product requirements came from the following core ideas/groups:

* User Trials to understand what would make ProtoControl a good product
* Goal going into it was to make designing UIs as simple as possible

Easy and Simple Changing of Designs (website)

* Drag-and-drop

Commands we send only have two components

Connecting the system only requires you to know where the digital and hardware components were saved

**User Flow POV**

**User Flow Overview**

**User Flow + Demo 1 (and maybe Demo 2) Wifi Demo**

**Emphasize How We have Met Product Requirements**

* **Show subsystem**
* **Demonstrate the need for Protocontrol**
* **Show Design on the Website**
* **Upload**
* **Added Code**

**The Design Journey**

**Subsystems**

**Design Challenges/Solutions Design Optimizations should be Sprinkled In (explain our design choices)**

**Timeline Should be Sprinkled In**

**Integration**

**Design Challenges Design Optimizations should be Sprinkled In**

**Timeline Should be Sprinkled In**

Major Pivots

* CORE: First made a local user interface (how to draw the buttons) (from here the other branches of the project spring)
* Napkin sketch to UI with AI idea → Website
* Physical and Digital Components
* Custom IC→FPGA→chip + component pcb
* Port vs Component``
* Character vs word (for the sake of reliability)

Big Technical Milestones

* Main PCB working
* Component PCB
* Transferring Profiles with a single string
* Communication Protocol b/w user and protocontrol
* SPIFFs
* Access Point

**Show Ease of Configurability and Hot-Swapability**

**Demo 3 & Demo 4**

**Possible Next Steps**

**\*\*Where Does Test and Verification go?**