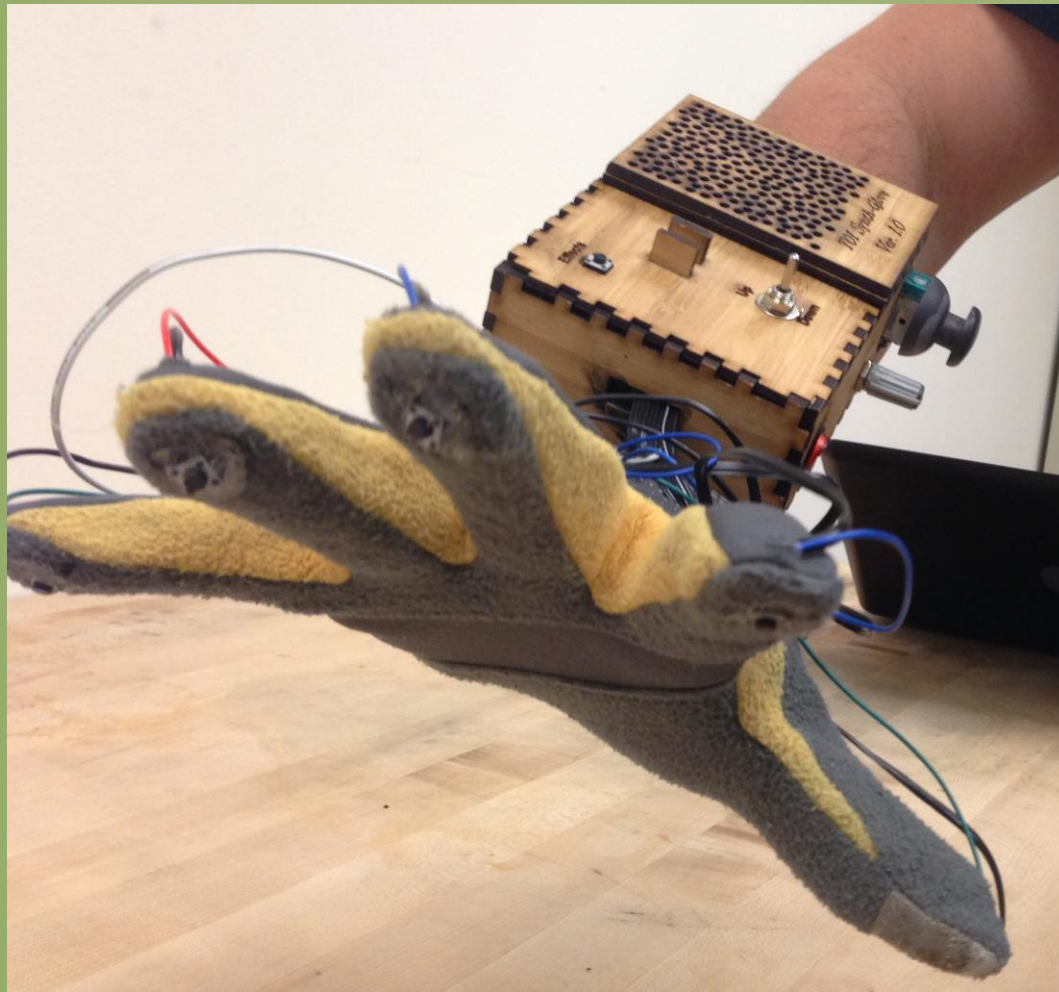
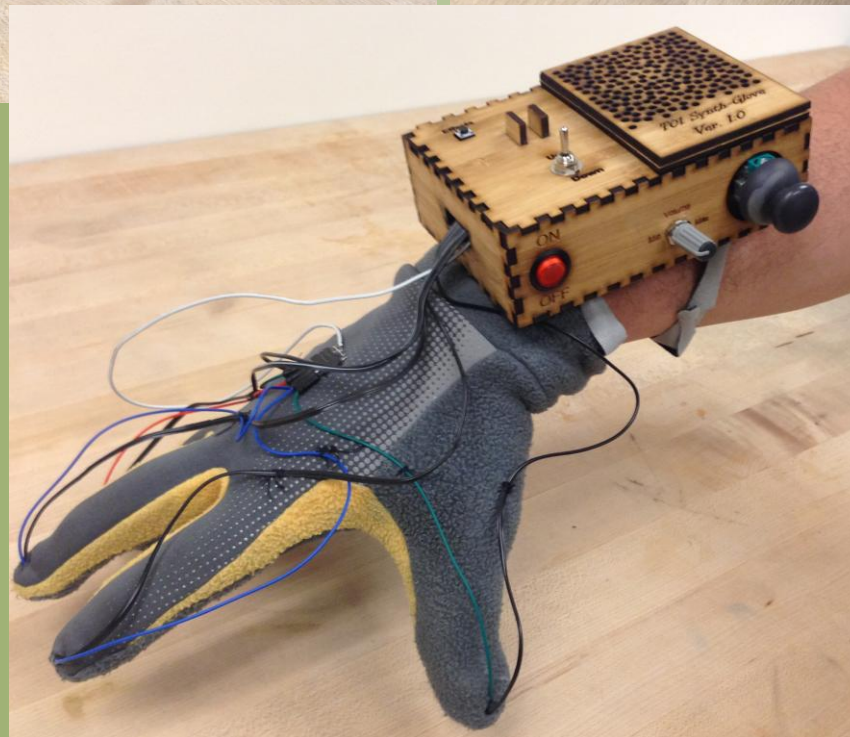
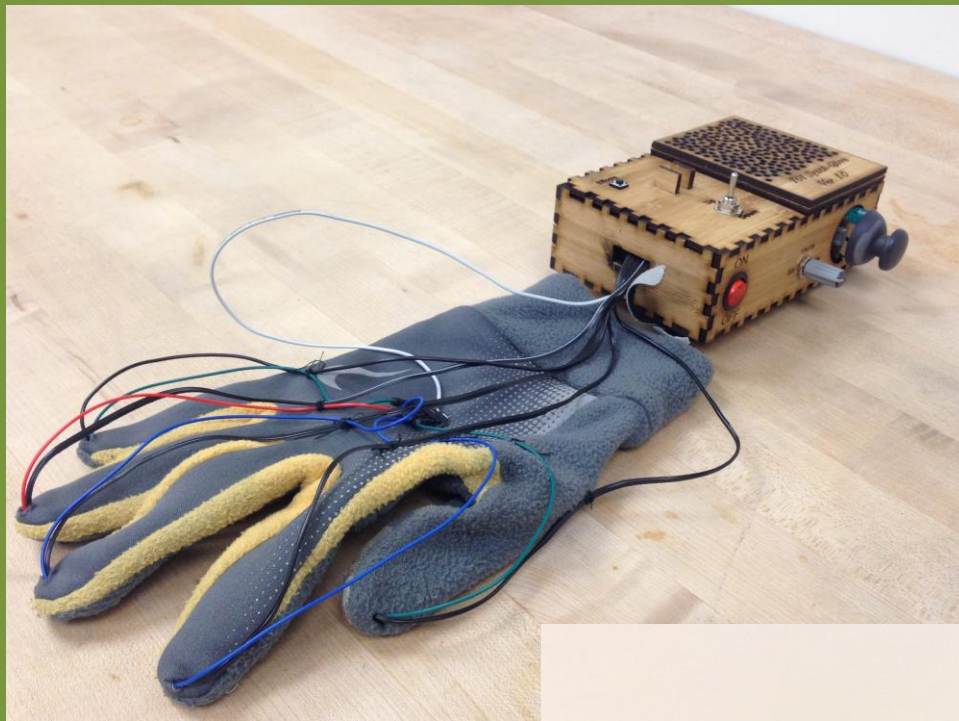


T01

Synthesizer Glove

Steve Peirce
Nicholas Sayre
Nathan Bryant
Ali Alavi





Motive



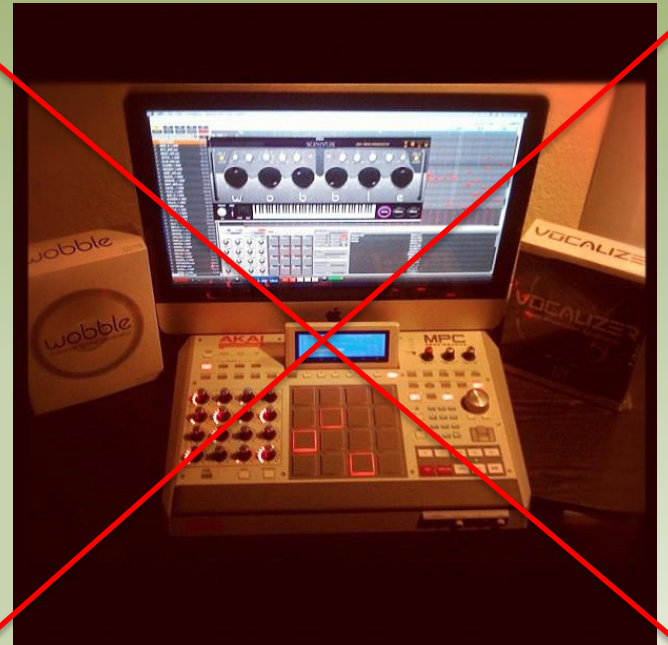
Goal



Alternatives



Approach



Requirements

System will be capable of analyzing the introduced
system software to a portable monitoring tool as
system must be wearable on user's hand or
lower body part in order to detect low noise vibration
more accurately. It will be based on intelligent solution
for farm:
sensors.

Design Level 0

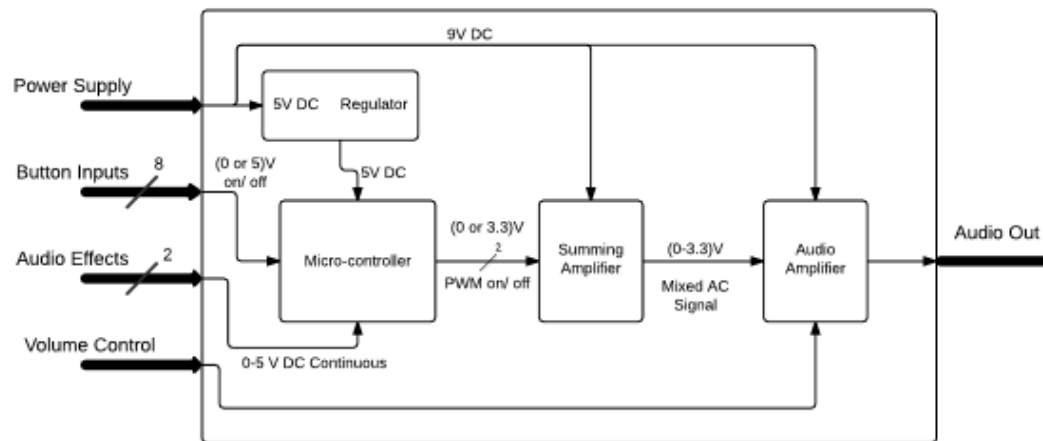
Entire System: Level 0 Design Diagram



Level 0 Synthesizer Glove Design

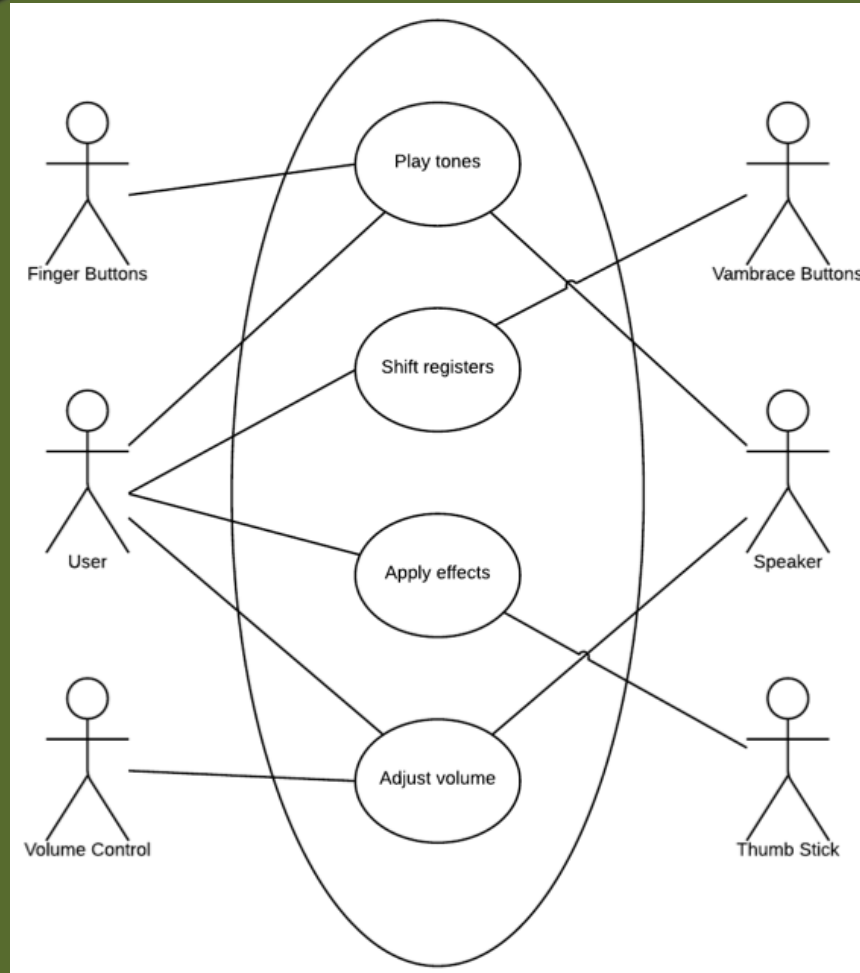
Design Level 1

Entire System: Level 1 Design Diagram

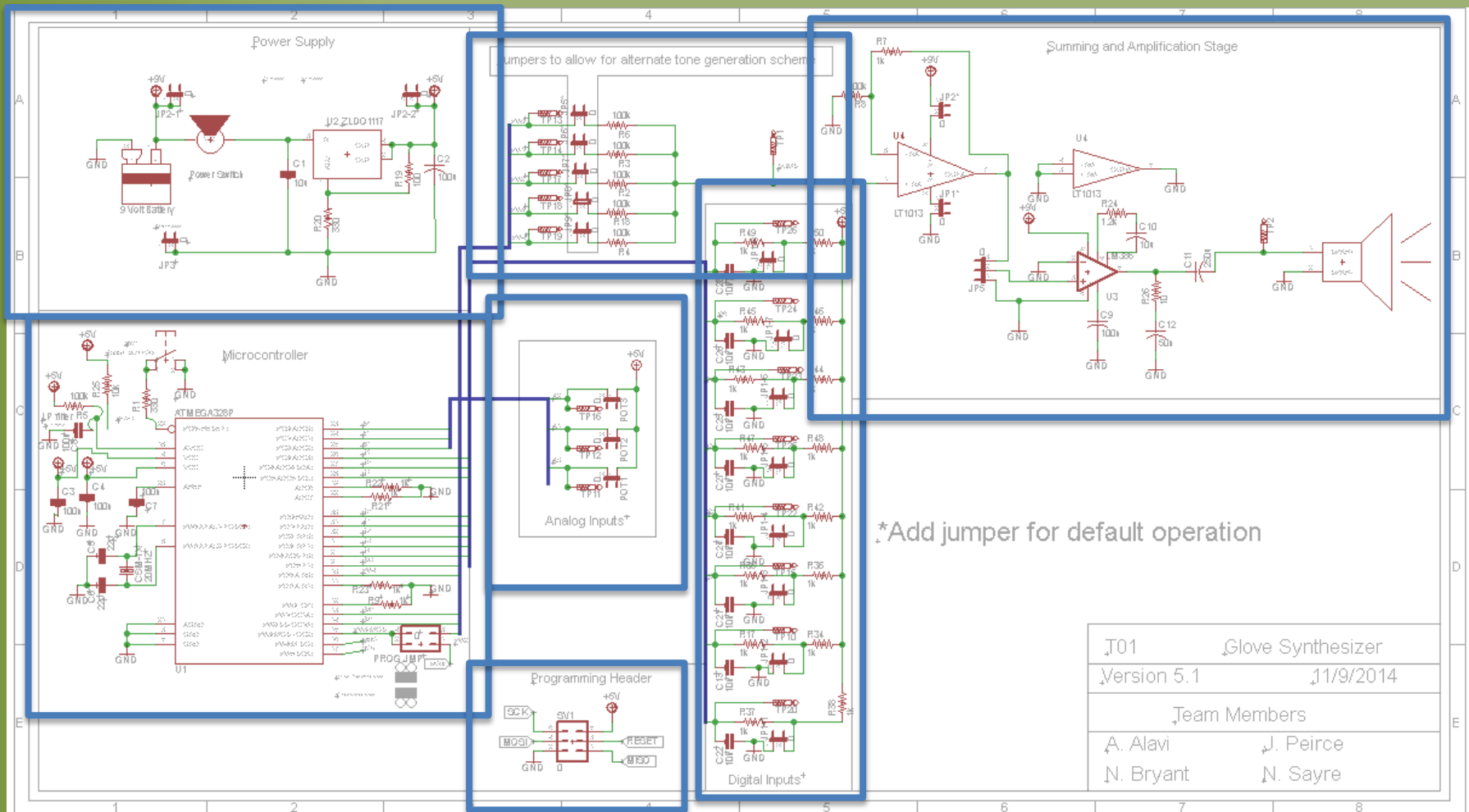


Level 1 Synthesizer Glove Design

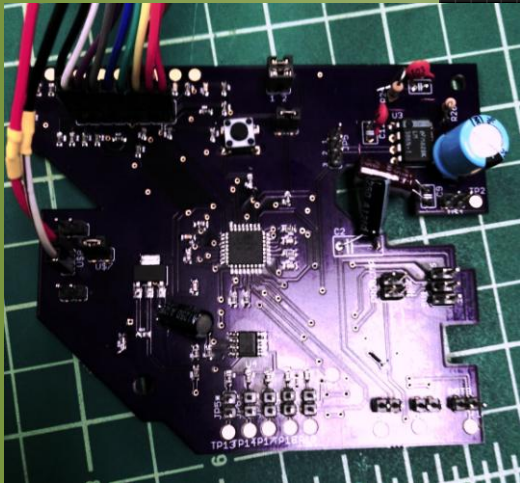
Use Case



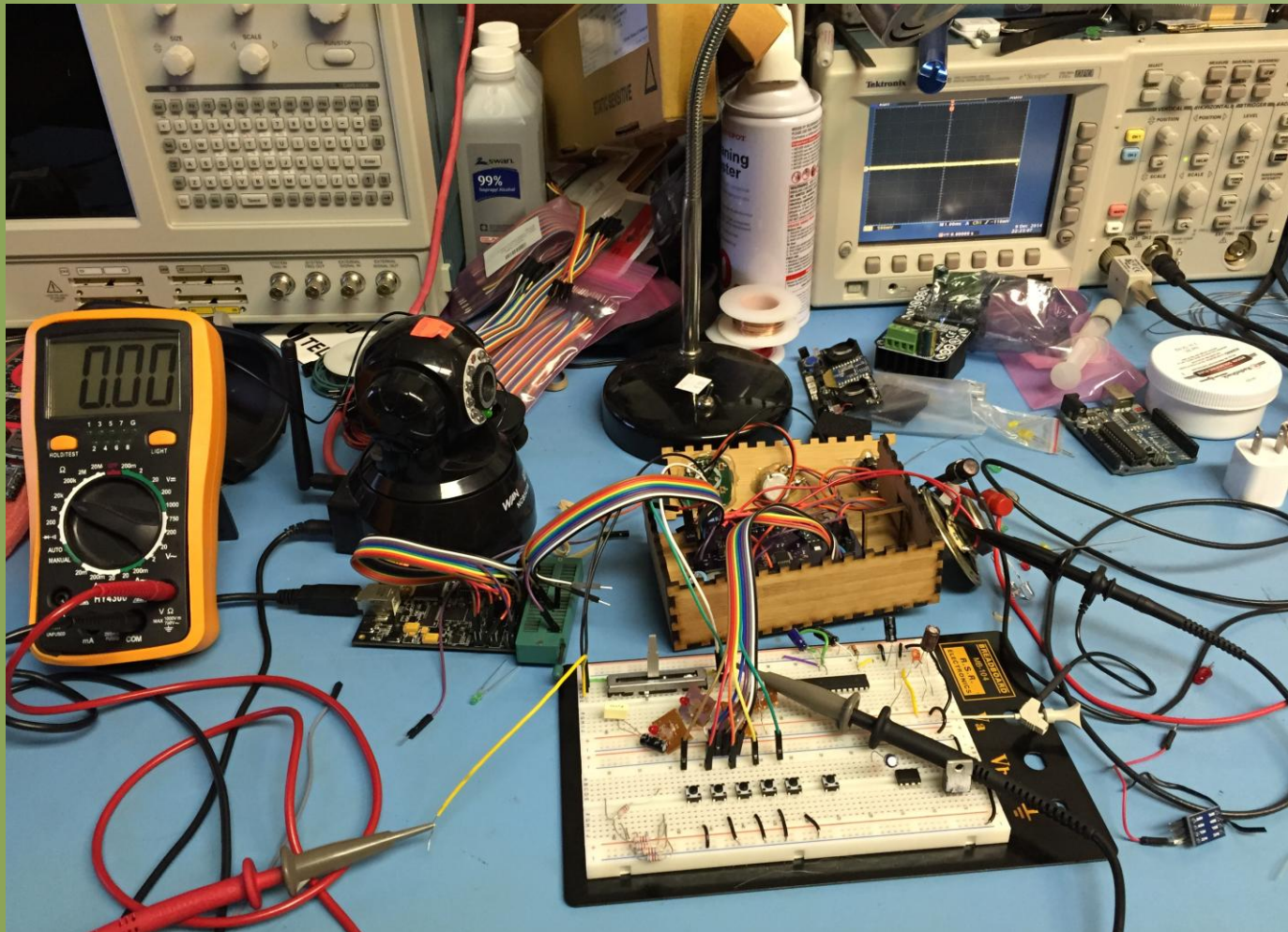
Schematic



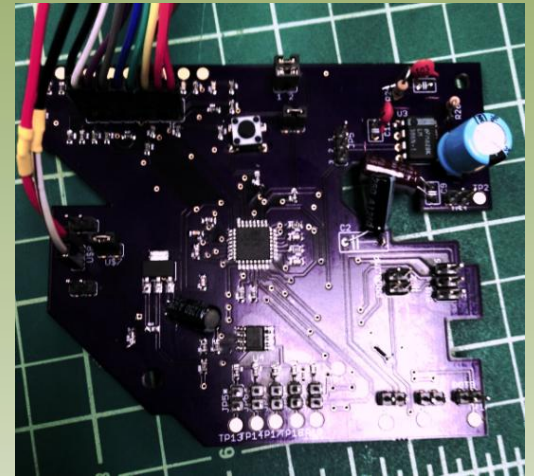
PCB Layout



Programming



Testing



Contributions

Ali	Nathan	Nick	Steve
Research	Research	Research	Research
Proposal	Proposal	Proposal	Proposal
Design Requirements	Design Requirements	Design Requirements	Test Programs
Prototype Board Assembly	Schematic	Schematic	Write Program
Project Schedule Draft+Revise	PCB Layout	PCB Layout	Revise Program
System Diagrams	Project Schedule Review	Prototype Board Design and Assembly	Finalize Program
Housing	System Diagrams	System Diagrams	Testing
Prototype Assembly	Test Plan	Housing	
Testing	Housing	PCB assembly	
Presentation	PCB assembly	Prototype Assembly	
	Prototype Assembly	Testing	
	Testing		

Lessons Learned

- **RULE OF 10!**

- The ugly truth of Murphy's Law.
- Eagle
- Board layouts
- Research research research!
- Reading data sheets closely and repeatedly is key
- Teamwork can be rough...
- Stay ahead of schedule!

Intellectual Property

Questions?