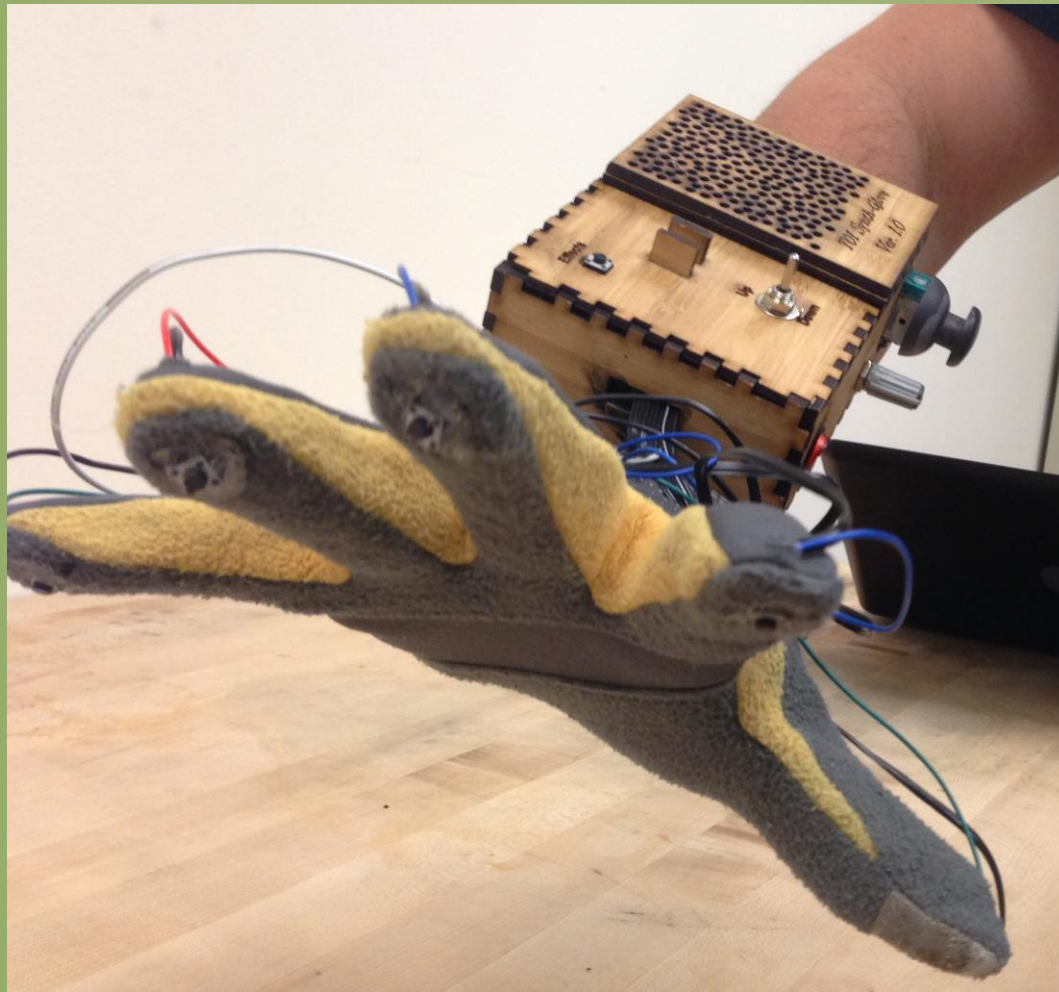
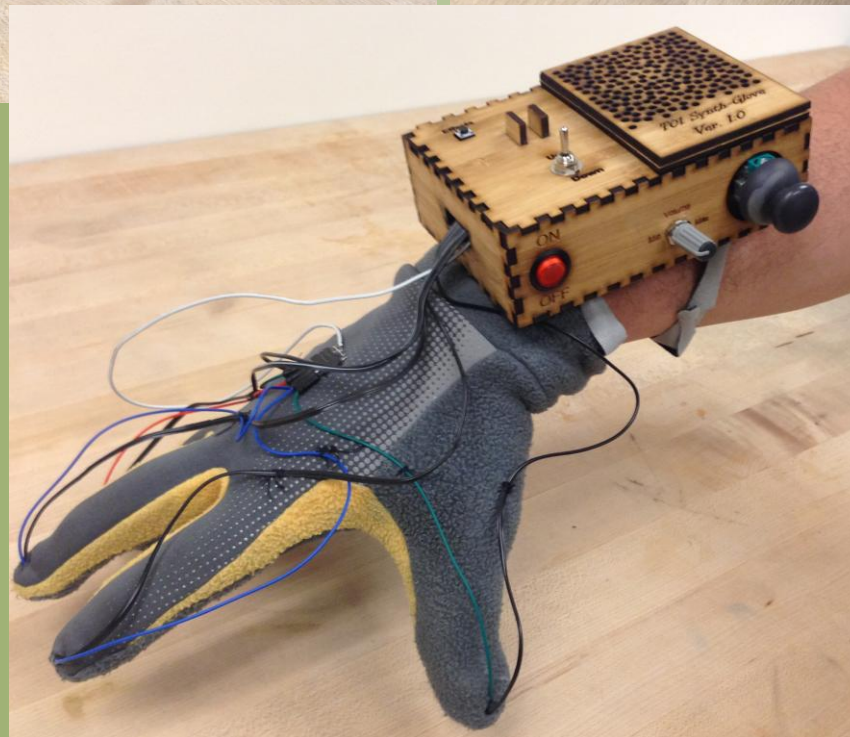
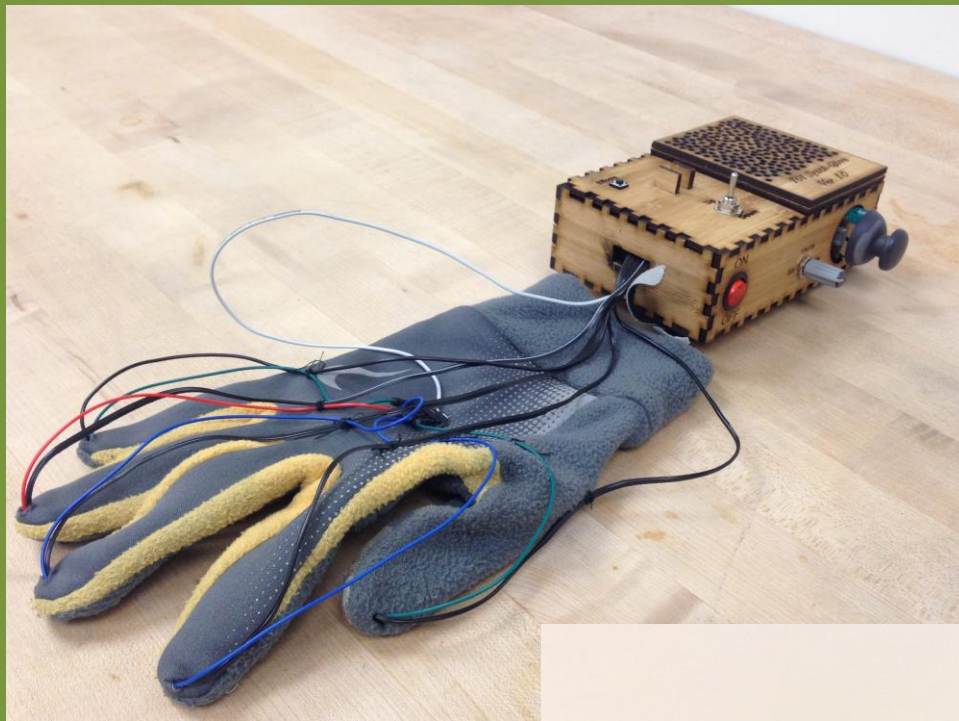


# T01

## Synthesizer Glove

Steve Peirce  
Nicholas Sayre  
Nathan Bryant  
Ali Alavi







# Motive



# Goal

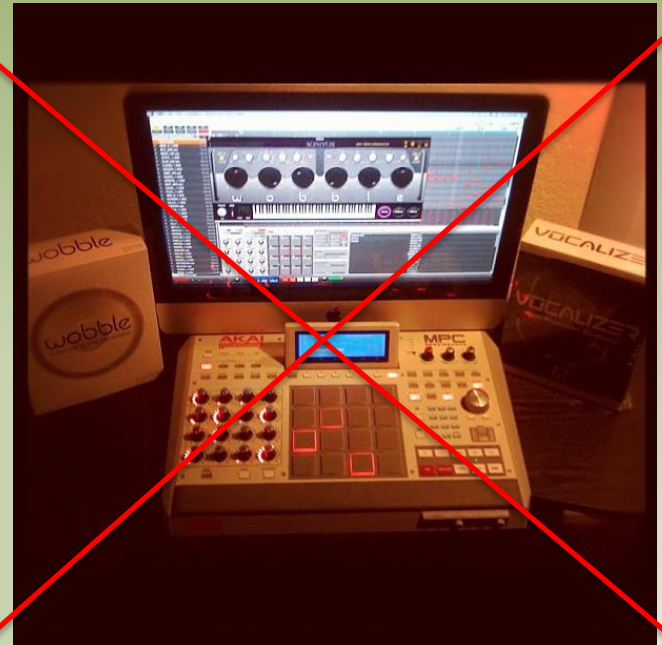


# Alternatives





# 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

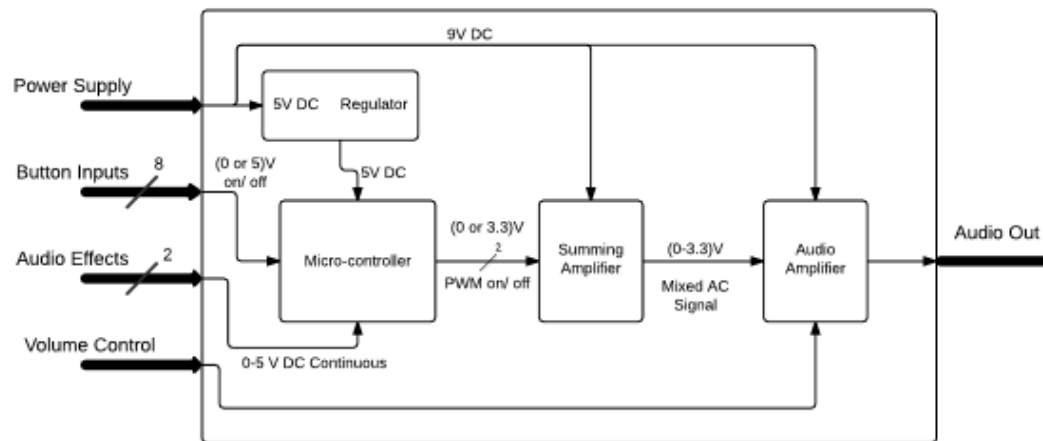


Level 0 Synthesizer Glove Design



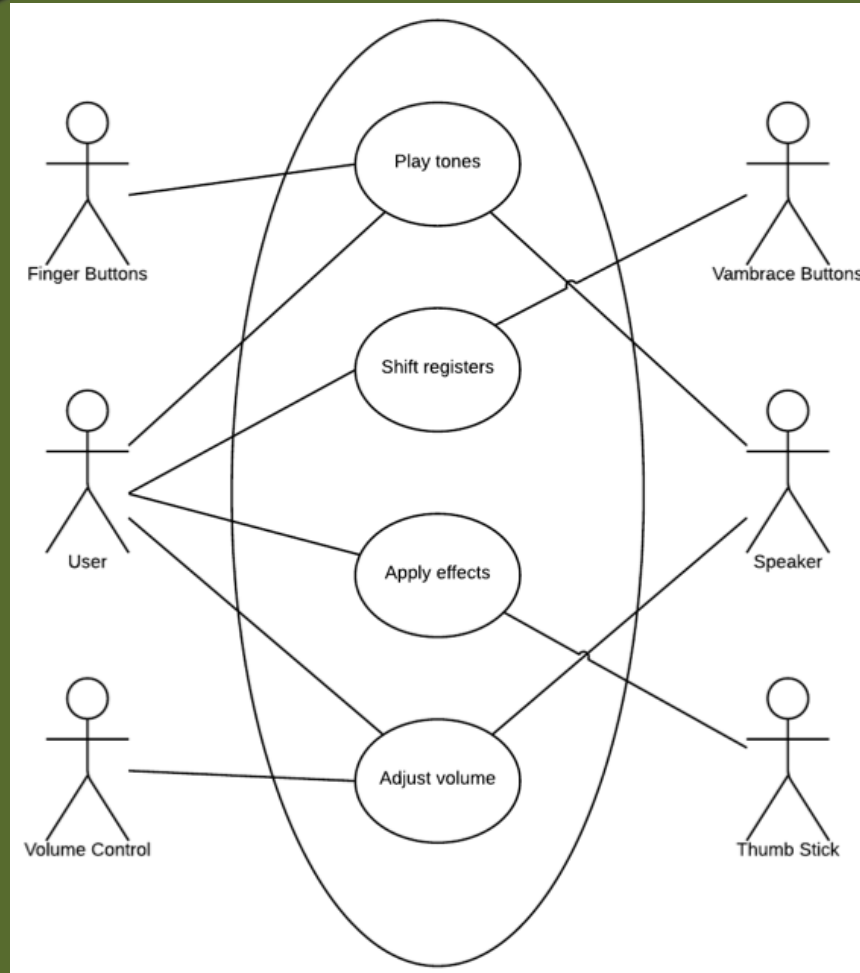
# Design Level 1

**Entire System: Level 1 Design Diagram**

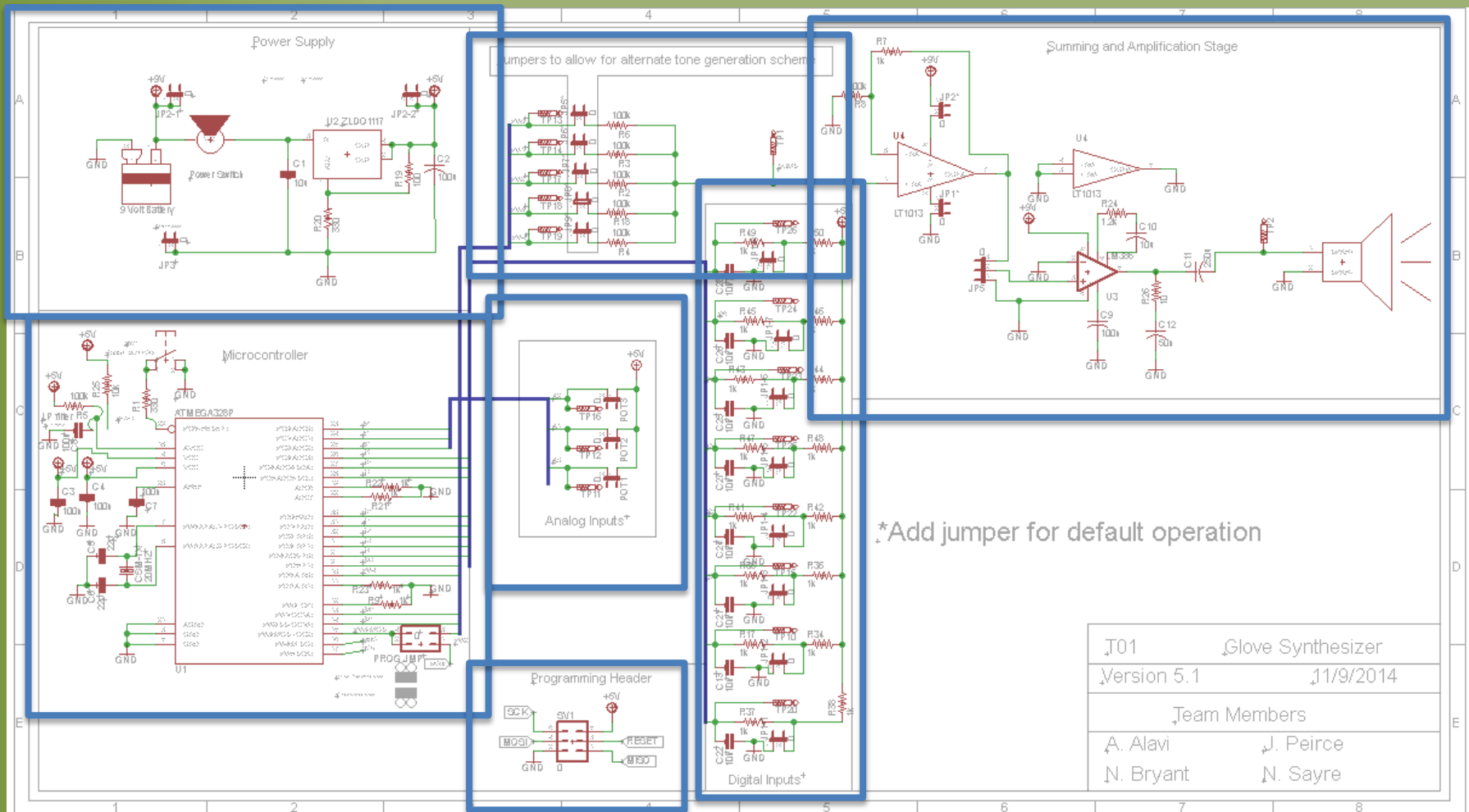


Level 1 Synthesizer Glove Design

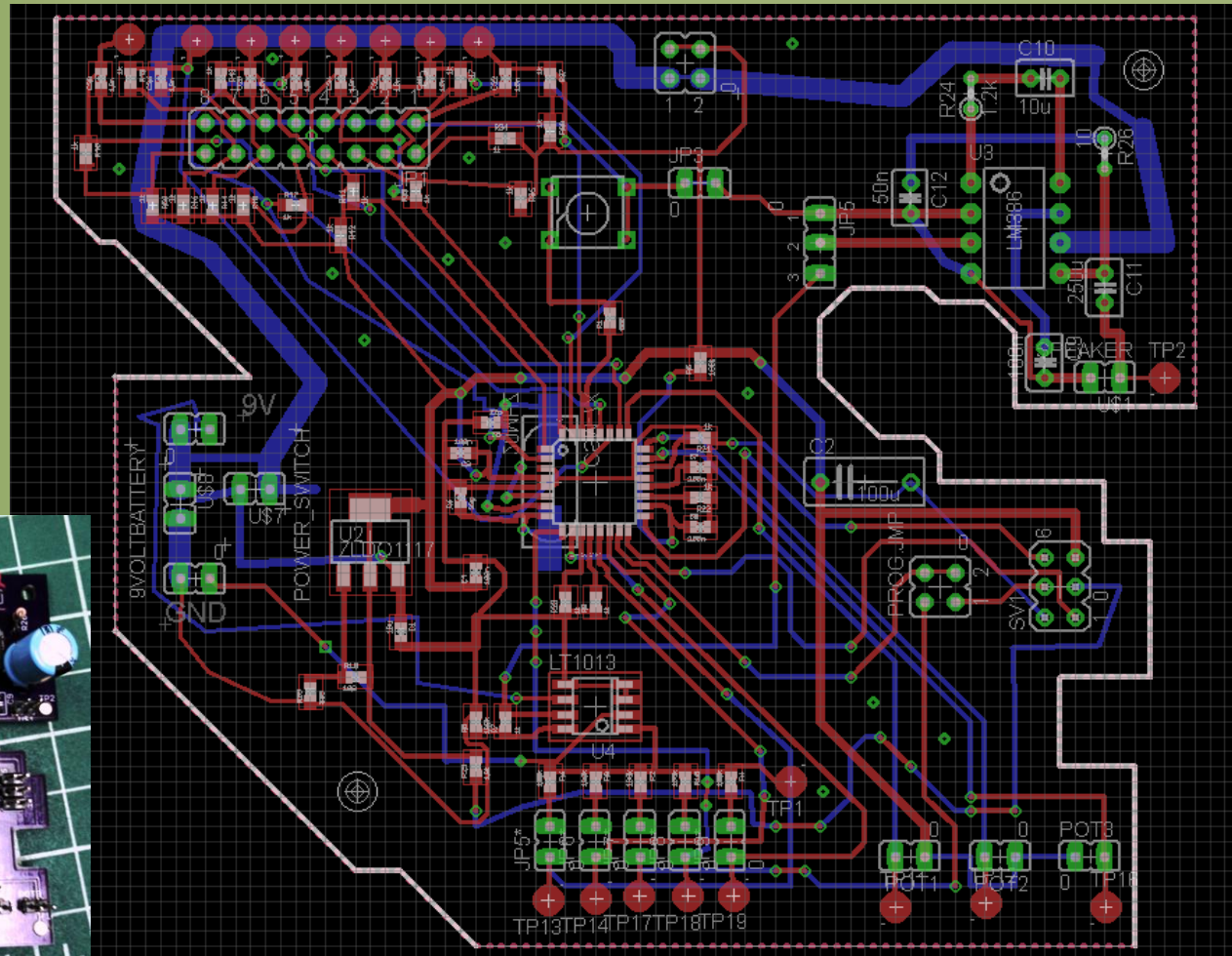
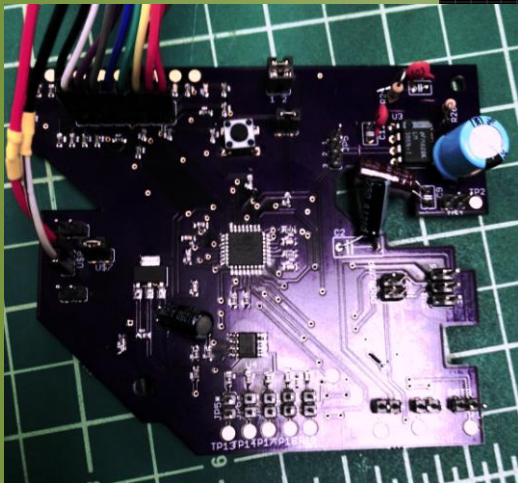
# Use Case



# Schematic

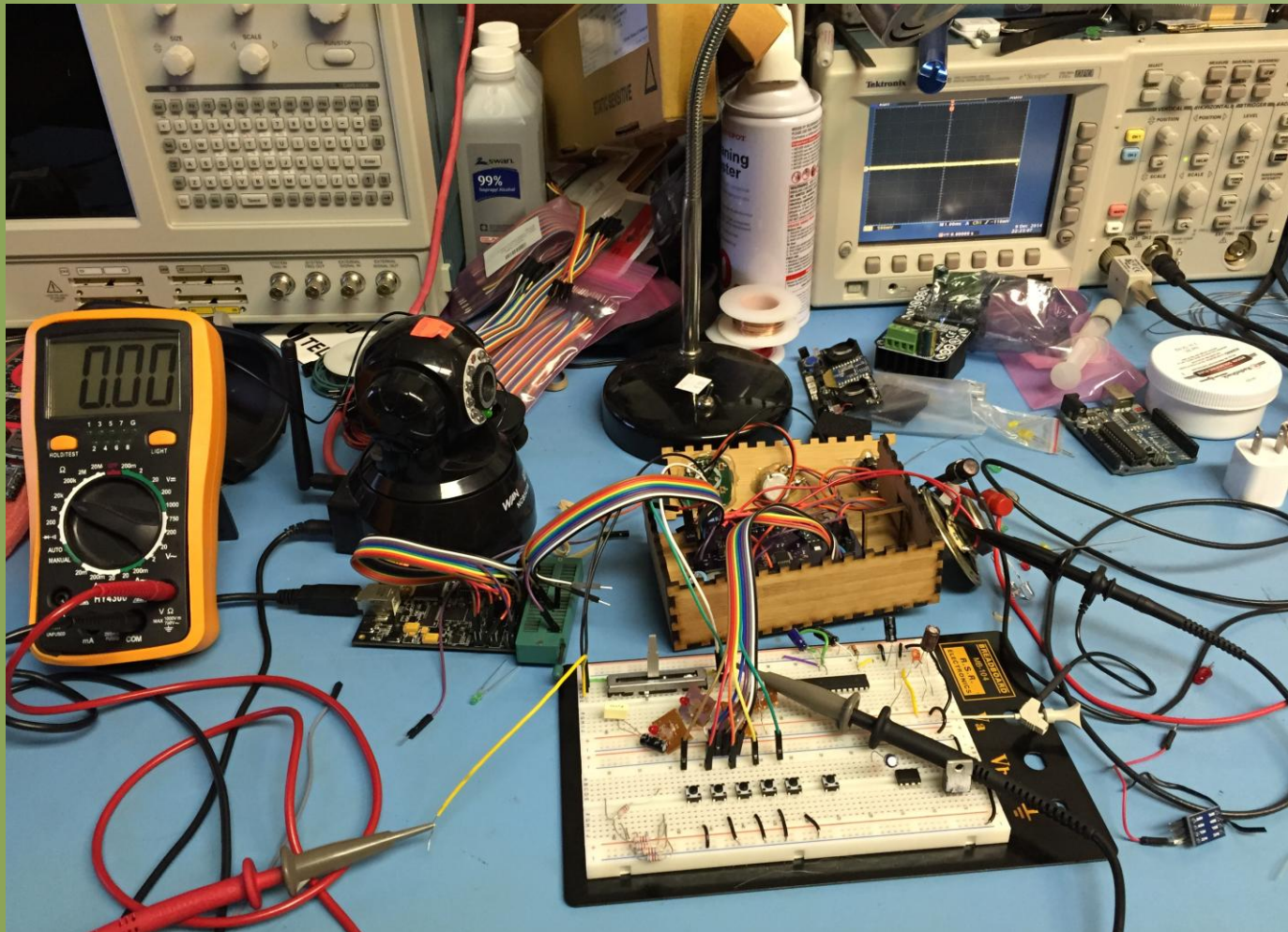


# PCB Layout

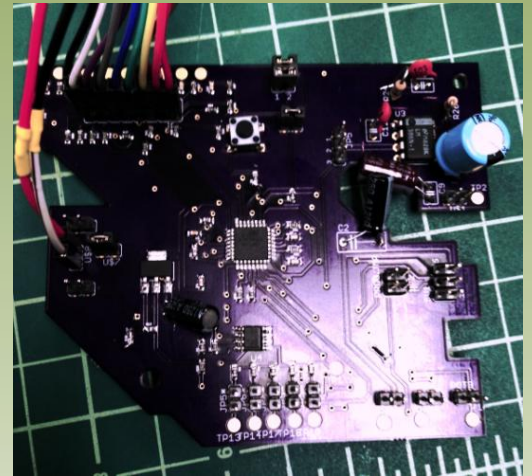




# Programming



# 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?