

MSD II EE COMPLETED TASKS – WEEK 5

- Fixed small components issue (several of the previously selected PCB components were too small for hand soldering)
 - Found new components with more desirable sizes
 - Resized and replaced components on PCB
- Added through-hole connectors for external peripherals
- Determined dimensions and locations for screw holes
 - Implemented specs onto PCB design file
- Cleaned PCB wiring design to minimize through-holes and thus noise
- Looked into PCB ordering and pricing quotes
 - Likely choice going to be ValueProto ordering; 2 boards; 2-day shipping
- Acquired Sunstone sponsorship (20% - up to \$1200)
- Shopped for and ordered test boards for ICs
 - Waiting for PCB order and component mounting could take too long
- Swapped accelerometer chip out for a bigger one; will be easier to install
- Updated USB footprint to include more soldering pins; added EGND pins
- Reformatted IC footprints; extended pin leads for easier soldering
- Began exploring In-System Programming (ISP)
 - Added 3x2 programming header to PCB
- Several more PCB modifications *after Carlos check
- Accelerometer IC Testing
- Boost Converter IC Testing
- Buck Converter IC Testing
- H-Bridge IC Testing
- Sensor Testing