Deliverables:

* User guide/manual
  + Would be provided to every user
  + Covers everything needed to know to use protocontrol
  + Needs to be able to be embedded within website, but also a physical copy should be a priority
  + Iteration 2: Fritzing Diagram,
* Technical Documentation
  + Contains very technical explanations & documentation
  + Wouldn’t be provided standard to users
  + Is useful for providing to instructors, judges, etc., to provide a highly technical overview
  + Shouldn’t be nearly as wordy as the user guide, because it should be largely graphic (UML diagrams, table, schematics, drawings, design justifications)
  + Dimensions/2D CAD Drawings for all the enclosures DONE
  + PCB schematic x2 DONE
  + Fritzing Diagram of what ProtoControl is made of (Main Board + Digital Hardware + Analog Hardware) (SKIP)
  + BILL OF MATERIALS DONE

User Manual Notes:

1. I think one example system that is built on throughout the manual is the best option. But it is important that this system exhibits a need for all the features it will be used to demonstrate. We shouldn't have to force features to work with/be necessary in the demo system
2. The organization of the manual is subject to change, but for now, the overall structure is to begin with all the general info (Part 1), organized chronologically by when it would be relevant to a user, then the second and final 30-50% of the book should be the actual step by step setup guide (Part 2)
3. For sections such as troubleshooting info, this is relevant for each section but doesn’t need to be included in each section. Most users won’t need to troubleshoot in regular use cases, so we should probably just have one section dedicated to all of troubleshooting, and we simply reference that section/subsection throughout the manual whenever it may be helpful

### User Manual:

Sections:

1. Preface
   1. Title Pages
   2. Table of Contents
2. Getting Started (about Protocontrol)
   1. What is needed from the user
   2. What is provided by protocontrol
   3. How it works
   4. Example system??
3. The Web interface
   1. Designing a layout
      1. What are the components
      2. How to place/configure components
      3. Example System??
   2. Generating a layout
      1. Image processing overview
      2. Load previous layout (feature is WIP)
      3. Generate current design
4. The Protocontrol system
   1. Overview
      1. Brief description of parts
      2. Protocontrol Setup (Wifi, power, etc.)
   2. Assembling Physical components
      1. What are the components
      2. Limitations
      3. Example System??
   3. Retrieving your layout