**Plan for October:**

* Get Raspberry Pi 3 (with micro SD card, power, and USB cable)
* Set up ARTOS on the Pi 3, and in a VM
* Learn python, ARTOS, VM, and any needed supporting tools
* Setup and test network functionality
* Send a simple JSON message (open / close circuit on the Pi)
* Verify that our solution works, and that it is all open source

**Plan for November:**

* Evaluate if we will use ARTOS or another OS platform
* Set up server for testing our hub (JSON, encryption, authentication) [May be easier to ask Daniel for a Linux server with GUI]
* Encrypt the JSON messages (choose method)
* Set up 2 key authentication with the server (Lets look for python libraries that will do this on both ends, or script SSH)
* Documentation / portfolio

**Plan for December:**

* Program lief nodes (ESP with Bluetooth, Arduino)
* Lief nodes may be stubs.  Full functionality will be developed in the spring.
* Set up database / repository on the server for all incoming JSON messages
* Explore cloud functionality for ARTOS (proof of concept)

**Plan for January:**

* Be slackers

**General Plan for 2nd Semester (hard details still TBD):**

* Explore making other sensor types using same hardware
* Explore wireless communication methods and security (Bluetooth)
* Get server/computer for the Pi to interface with up and running
* Program GUI for server (ease of use, can be CLI)

**Plan for March:**

* Build working model, door sensor plus real-time logging?  (May need to buy hardware and use the shop)
* Work on documentation, wiki page, portfolio, etc.
* Develop presentations and booth