Useful Links:

1. Data collection and calibration

Serial port communication:

<http://www.codeproject.com/Articles/3061/Creating-a-Serial-communication-on-Win>

<https://msdn.microsoft.com/en-us/library/ms810467.aspx>

<http://cboard.cprogramming.com/cplusplus-programming/78453-serial-port-communication.html>

Calibration:

Java:

Colt matrix library: <http://dst.lbl.gov/ACSSoftware/colt/api/>

La4j matrix library: <http://la4j.org/apidocs/>

Bluetooth: <https://today.java.net/pub/a/today/2004/07/27/bluetooth.html>

<http://www.aviyehuda.com/blog/2010/01/08/connecting-to-bluetooth-devices-with-java/>

<https://code.google.com/p/sprime/source/browse/trunk/sprime-bt/src/org/java/bluetooth/sprime/?r=12>

C: (We use C rather than Java)

**GSL**: <https://seal.web.cern.ch/seal/workbook/gsl-howto.html>

GSL configuration:

<https://jpjitendrapal.wordpress.com/2012/02/29/configure-gsl-1-8-with-dev-c-in-windows/>

1. Lamp control

Hue lamp API: <http://www.developers.meethue.com/documentation/getting-started>

SSDP: <http://www.ibm.com/developerworks/cn/linux/other/UPnP/part1/>

upnp: <http://upnp.org/sdcps-and-certification/resources/tutorials/>

Socket programming:

<http://www.binarytides.com/winsock-socket-programming-tutorial/>

<http://www.tenouk.com/Winsock/Winsock2example9.html>

Curl library (handle HTTPS): <http://curl.haxx.se/libcurl/c/https.html>

Curl configuration: <http://stackoverflow.com/questions/31628687/install-curl-in-dev-c>

1. Vibrator sub-system

Vibrator: <https://www.sparkfun.com/products/8449>

Use vibrator: <http://learningaboutelectronics.com/Articles/Vibration-motor-circuit.php>

Motor driver: <https://www.sparkfun.com/products/9457>

PWM configuration: <http://sourceforge.net/p/contiki/mailman/message/34547845/>

CC2538 datasheet: <http://www.ti.com.cn/cn/lit/ug/swru319c/swru319c.pdf>

Modify Baud Rate: reading datasheets online.

1. 3D printer

I learned how to use SolidWorks by **practicing the examples provided by the software**. Firstly, we build parts and then create assembly files and verify our design. Lastly, we can save our parts as STL files, and then give those files to technicians.