**Important References**

* Serial Communication:

<https://learn.sparkfun.com/tutorials/serial-communication>

* SPI:

<https://learn.sparkfun.com/tutorials/serial-peripheral-interface-spi>

* I2C:

<https://learn.sparkfun.com/tutorials/i2c>

<http://www.ti.com/lit/an/slva704/slva704.pdf>

<https://www.youtube.com/watch?v=qeJN_80CiMU>

* PCB Manufactor:

<http://www.4pcb.com/pcb-student-discount.html>

**Component References**

* Arduino Pro Mini

<https://www.amazon.ca/Arduino-Pro-Mini-328-16MHz/dp/B0089TPH3O/ref=sr_1_2?ie=UTF8&qid=1502058688&sr=8-2&keywords=arduino+mini>

* PPG Sensor

<https://www.sparkfun.com/products/11574>

* Accelerometer

<https://www.amazon.ca/DFRobot-Triple-Axis-Accelerometer-ADXL345/dp/B00G3IJVXU/ref=sr_1_3?ie=UTF8&qid=1502058900&sr=8-3&keywords=dfrobot+accelerometer>

* SD Card reader

<https://www.amazon.ca/Reader-SODIAL-Memory-Shield-Arduino/dp/B00YMJVLAS/ref=sr_1_1?ie=UTF8&qid=1502058926&sr=8-1&keywords=sd+card+arduino>

* Recharger module

<https://www.amazon.com/JBtek-Lithium-Battery-Charging-Protection/dp/B00QGVP944/ref=as_li_ss_tl?s=electronics&ie=UTF8&qid=1490634732&sr=1-1&keywords=micro+usb+charging+board&linkCode=sl1&tag=tinkernut09-20&linkId=52e88f0b044b94d63257d82080e77be7>

<https://www.adafruit.com/product/1578>

* Bluetooth TX/RX

<https://www.amazon.com/KEDSUM%C2%AE-Arduino-Wireless-Bluetooth-Transceiver/dp/B0093XAV4U/ref=as_li_ss_tl?ie=UTF8&qid=1466792656&sr=8-1&keywords=jy-mcu&linkCode=sl1&tag=tinkernut09-20&linkId=3ac69ec7ab4ccc962b22abea5349baed>

* OLED Screen

<https://www.amazon.ca/Moudle-Serial-Display-Arduino-Raspberry/dp/B01N1IIX5J/ref=sr_1_1?ie=UTF8&qid=1502059062&sr=8-1&keywords=oled+arduino>

**Project References**

<http://www.tinkernut.com/portfolio/make-smartwatch-old-cell-phone-part-1/>

<http://www.instructables.com/id/DIY-Arduino-Watch-Sport-20/>

* **Quaternions/Kalaman filter**

<https://www.cs.utexas.edu/users/fussell/courses/cs384g-fall2010/old/quaternions.pdf>

<https://stanford.edu/class/ee267/lectures/lecture10.pdf>

<http://web.cs.iastate.edu/~cs577/handouts/quaternion.pdf>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5108752/>

<http://biorobotics.ri.cmu.edu/papers/sbp_papers/integrated3/kleeman_kalman_basics.pdf>

<http://www.lucidarme.me/?p=5299>

<https://www.hackster.io/bhagistore/arduino-integration-with-accelerometer-dcca74>

<https://www.cl.cam.ac.uk/techreports/UCAM-CL-TR-696.pdf>

\*\*\*\*\*<http://vr.cs.uiuc.edu/vrbook.pdf>