**This Week:**

* Successfully built OpenCV for Python on the RPi’s sd card.
* Set the RPi up for video and photo taking, allowing motion detection for a rudimentary object as well as a basic contouring finding system.
* Tested camera with IR light in a light and dark environment
  + Dark environment works significantly better than in the light, both times with the IR LED’s; see photos
  + George got some reflective markers that we can cut up. Stuck some to dark sweatshirt and tested recording video with markers; see video

**Next Week:**

* Put together mock suit for reflectors
* Fix FPS issue
* Make system for extracting coordinates from the markers (size, x & y, etc.)
* Get a cooling system for the Pi
  + Heatsinks for the main board, as well as for the camera
* Get 40pin GPIO header for the Pi Zero board
  + Currently using the Pi 3 as it has the GPIO header already soldered; needed to give power to LED ring
* Look into switches for powering the board itself and the LED ring
  + LED ring gets incredibly hot as it is simply plugged in and apparently constantly receiving power