**Lumi Progress Report**

**Week 5**

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**Lumi Physical Format**

Emailed Austin about this cuz I have no idea what this is about

//more stuff here

**Progress In-Depth**

**Mobile Application**

In the past two weeks, Richard has been able to condense the mobile app to functionalities specifically to compliment the hardware. The UI has also been modified to mirror the changes in the exclusion of unnecessary functionalities. Lumi’s mobile app is now able to enable/disable lights from the NeoPixel ring, enable/disable sound activation, light pattern options for the NeoPixel including rainbow, strobe, and solid RGB. These functionalities have been tested up to the mobile app and further integration with work by Ruel will continue the data input testing to the hardware.

Currently the progress on the application primarily involves sending and fetching input data to the Firebase Database as a means of testing for future full implementation.

**Hardware Python Coding**

//Raymond type stuff here

**Google Firebase Database**

//RJ type stuff here

**Project Obstacles & Difficulties**

**Lumi 3D Shell**

The softworks shell provided by our collaborator David Neumann has been found to be too small to house our Raspberry Pi 3. The current progress on this aspect of the hardware is to enlarge the shell in a 3D software designing platform. We expect it to be 200-250% larger than the original. The difficulty lies with learning the platform in order to successfully complete this task with minimal to no design flaws during 3D printing.

//talk about your difficulties here

**Project Financials**

No real changes has been made to the hardware that required deviations from the original financial plans. The modifications made to the 3D Lumi shell has fortunately been provided for free through Humber College.