**Progress Report**

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| **Project Name** | **SurveillanceCam** |
| **Name** | **Mykal Bailey** |
| **Institute** | **Humber College** |
| **Date** | **December 21,2017** |
| **Reporting Period** | **September 6, 2017 - December 21, 2017** |
| **Estimated Project Completion Date** | **January 12, 2018** |

**Overall Progress**

Refer to Project Proposal in "Links". The SurveillanceCam is nearly complete. I have acquired all necessary parts to assemble the hardware. Visit Blog link to view project build video. I Have added functionality to control pan and tilt (servo control through pulse width modulation) as well as the camera controls. All hardware functionality is available to demonstrate on the locally hosted web server on the Raspberry pi.

**Problems/Opportunities**

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| **Problem** | **Opportunity** |
| College Strike | I was given more time to research parts not yet acquired to lower overall project cost. |
| No PCB | Allowed me to learn how to perform functions I needed directly from the raspberry pi GPIO ports. |

**To-do**

Now that I have functioning hardware the next step I’m going to take is setting up and implementing a database to save pictures and photos as well as creating the functionality to view them. Once that is complete I will be working on applying hardware functionality in android software app and GUI aesthetics for a more user-friendly interface.

**Budget**

I have made some changes to the parts I originally planned on purchasing(refer to Blog link to view Budget image). 2 Major changes I have made are with the purchase of the Raspberry PI and Jumper Wires. A Jumper wire kit is extremely unnecessary therefore I went for a cheaper alternative. As for the Raspberry pi, instead of purchasing only some parts I decided to get the package from Canakit which is bundled with 32GB SD card, hdmi cable, RPI case and more. I felt it was a better value. After changes were made . Below you’ll see the projected costs versus new costs.

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| **Item** | **Jumper Wires** | **Raspberry Pi Kit** | **Total** |
| **Supplier** | GHH | Raspberry Pi/Enokay/Sandisk |  |
| **Projected Cost** | 29.63 | 91.35 | **120.98** |
| **Supplier** | richartforcanada(Amazon) | CanaKit |  |
| **New Cost** | 3.64 | 118.61 | **122.25** |

**Links**

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| Repository | https://github.com/mykalbailey/Surveillance-Cam |
| Blog | https://mykalbailey.github.io/Surveillance-Cam/ |
| Proposal | https://github.com/mykalbailey/Surveillance-Cam/blob/master/Project%20Proposal.docx |
| Budget | https://github.com/mykalbailey/Surveillance-Cam/blob/master/Project%20Budget%20image.PNG |
| Schedule | https://github.com/mykalbailey/Surveillance-Cam/blob/master/Project%20Schedule%20Pic.PNG |