Week 19 to 22 Work Record

3rd July to 30th July

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| **COMPLETED TASKS** | **COMMENTS AND CONTINUATION OF TASK** |
| Version Control  **Hours: 1** | Added all of the project work, not just the code. |
| Code Refactor  **Hours: 5** | Continued work on refactoring the code into classes, also allowed me to figure out how each module will fit into each other, and plan out the overall code structure for the rest of the modules. |
| Baxter update 1.1.1  **Hours: 2** | Updated the software running on Baxter to version 1.1.1.171, and confirmed the update worked by connecting and checking the versions. Was going to update the SDK on the workstation computer connected to Baxter, but I need credentials to get online. Also left a README file on the desktop so others would know what I did. |
| Baxter Python API  **Hours: 2** | Had a look through and wrote down the modules within the python interface, which is looking like the code that will be used to control Baxter though my code. |
| TASK  **Hours:** | DESCRIPTION |

**What to do next:**

NOTE: overall not much work was done, which is disappointing. I attribute this mainly to getting an internship over the holidays and working 5 days a week, and then had some very busy weekends. The internship did teach me a lot about programming, version control and unit tests. I plan on applying what I have learnt to my project, and the company has even gone as far as offered to look over the structure of my code at my request.

Generally with git (the version control im using) it is kept not only locally but on a remote repository (github, bitbucket ect.). I have through about using github initially but I didnt feel comfortable having my code public (you need to pay a subscription for private repositories). Although I have found bitbucket, which allow unlimited private repositories. I would just like your thoughts on using a remote repository, which will allow online backup along with online version control.

More work need to go into the unfinished vision system, which should really be finished by now. After its finished I plan on getting images from Baxter's head camera in approximately the position I will be using to test how well it copes with the noise and such of the background. The grippers may provide an additional challenge.

While the vision testing is going on the movements need to be developed, beginning with the required positions (pick up, put down, scan the face, a central position for manipulations).

I have also thought of the idea of unit tests that will test the functionality of all the pieces of the code and allow me to ensure error cases are dealt with accordingly. I believe this will help demonstrate robustness within my code and should result in a higher quality product.