Week 13 Work Record

21st May to 28th May

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| **COMPLETED TASKS** | **COMMENTS AND CONTINUATION OF TASK** |
| Progress Report  **Hours: ~30** | Wrote and edited report. |
| Poster Presentation  **Hours: 2** | Created poster to be used in presentation |
| Cube Explorer  **Hours: 4** | Experimented with the best settings to use for finding the suboptimal solution. Additionally found way to communicate with program through its build in web server |
| OpenCV  **Hours: 4** | Continued going through documentation and tutorial exercises to learn how to work with OpenCV. |
| Pseudo Code  **Hours: 2** | Possible pseudo code for a function that handles the amount of face rotation needed to perform given manoeuvre.  Planning of a function to convert from section colour found by scanning the cube to Singmaster notation. An appropriate data structure to store this has be proposed. |
| Code to send Face colours to solver  **Hours: 2** | Found and successfully implemented code that can send the face colours to cube explorer. Additionally it handles returning the manoeuvres and removing html data from this information. |

**What to do next:**

* Continue getting familiar with OpenCV
* Develop code to converted between scanned colours to Singmaster notation, then to send a string to the Cube Explorer, retrieve manoeuvres and turn these into motions. This will form the bridge between input from the vision system to output to the motion planning.