Final Year Project Work Record

Week 4:

* Finished Udemy SQL course and researched uploading csv and .mat files into a sql database.
* Set up github
* Added more detail to project gannt chart
* Attempted an alternate iteration method on Python code for selecting ram locations to see if pre-selecting matrix size would reduce computational effort & time to evaluate objective function
* Read about some machine learning techniques and explored code and python libraries for tensor flows, k nearest neighbours, k clustering, random forests etc. Also read about keras, scikitlearn etc.
* **Emailed course organiser regarding a digital workbook**
* **Was allocated Ignazio Maria Viola**
* Met up with James Davidson. After introducing FASTBLADE and the scope of the project, we discussed python compared to other programming languages, available solvers, toolboxes and libraries that could be used for the problem. James will look at the Python code written in more detail soon.

Week 5:

15th

* Looking at how to fix LSQ objective function
* Simplified some code and added some comments
* Read up about Dataframes from panda library and unsure of how this could be utilised to improve current code
* Observed very bizarre pattern from Objective functions created and also noticed discrepancy from Python to MATLAB code.

17th

* Working on interim report
* Reading related documents to industry, FB etc.

18th

* Fixed issue with objective function. It was giving clearly wrong plot when determining discrepancy between target and actual shear while iterating over different values of sol
* Explored INERA001 data and explored methods of exporting it into a csv format. Come across many issues, will likely need to discuss with Jasmina