**ENGINEERING JOURNAL TEMPLATE**

# Date

* 15/01/2020

# Tasks

* Integrating the LIDAR driver project with the Qt GUI project under one Visual Studio project.

# Reflection

* Using the Qt extension for Visual Studio I managed to import the Qt project of the GUI into the same solution with the LIDAR driver.
* As expected I found problems relating to the multiple projects in the same solution.

# Issues:

*Software:*

* There are issues with the linker in the solution with the 2 projects in it, whenever I try to include the header from the LIDAR driver in the GUI file the project wont compile, stating it cant find the file, this is almost certainly due to the linker not being able to link the .lib file from the driver to the .exe of the GUI.

# Solutions

*Software:*

* As stated in the reflection I managed to begin to merge the front end of my project to the back end, and as I expected it wouldn't be as easy as just importing the 2 projects into the one solution, this is because the linker needs to know where the output of these projects are, that is the file produced by each project after compilation, I don't quite have a full understanding of the compilation process however. Fixing this will include more research on the topic and perhaps approaching a lecture to clarify the process.