

# Appendix 8: Code Developed for this Investigation Project Compiled and Written by Jesse van der Merwe

This code can be found at: <https://github.com/JessWhosBack/EIE-Investigation-22G05.git>

It should be noted that the appropriate licenses and full credit for all code that has been taken from an outside source is provided at the top of each script.

## CONTENTS:

### 8A. *isolateSpirals.py*

This code is used to accurately extract and save the spirals and line-blocks from each patient's scanned PDF of the filled in template as JPEG images.

### 8B. *extractRectangle.py*

This code is used to further extract and save the top-most line drawing from each of the line-blocks as a JPEG image.

### 8C. *method2.py*

This code is used to analyse the JPEG line drawing image and convert it into a useable Python function to calculate various values including average area and number of peaks and save them all in a 2D Python list for further analysis.

### 8D. *analyseResults.py*

This code takes the list mentioned above and compares, computes, and graphically demonstrates various values, combinations of values as well as combinations between various patients, etc. All to answer the investigation question and provide results in order to determine whether method 2 is of any use.