***Software Testing Portfolio***

**Outline of the Software Being Tested**

The project that I have chosen for testing in this portfolio is the Informatics Large Practical (ILP) project, which was worked on under the title of PizzaDronz. The purpose of the project was to develop an application that would allow informatics students to order pizza from the comfort of Appleton Tower. The coursework specification document goes into further depth about the details of the PizzaDronz app.

**1. Analyze requirements to determine appropriate testing strategies [20%]**

**1.1 Range of requirements, functional requirements, measurable quality attributes, qualitative requirements, etc.**

The requirements that are going to be tested have been described in the Software Requirements Document.

**1.2 Level of requirements, system, integration, unit**

The level of requirements document goes into detail of each of the requirement mentioned in the Software Requirements Document is stated in detail in the Level of Requirement document.

**1.3 Identifying test approach for chosen attributes**

**1.4 Assess the appropriateness of your chosen testing approach**

**2. Design and implement comprehensive test plans with instrumented code [20%]**

**2.1 Construction of the test plan**

**2.2 Evaluation of the quality of the test plan**

**2.3 Instrumentation of the code**

**2.4 Evaluation of the instrumentation**

**3. Apply a wide variety of testing techniques and compute test coverage and yield according to a variety of criteria [20%]**

**3.1 Range of techniques**

**3.2 Evaluation criteria for the adequacy of the testing**

**3.3 Results of testing**

**3.4 Evaluation of the results**

**4. Evaluate the limitations of a given testing process, using statistical methods where appropriate, and summarise outcomes [20%]**

**4.1 Identifying gaps and omissions in the testing process**

**4.2 Identifying target coverage/performance levels for the different testing procedures**

**4.3 Discussing how the testing carried out compares with the target levels**

**4.4 Discussion of what would be necessary to achieve the target levels**

**5. Conduct reviews, inspections, and design and implement automated testing processes [20%]**

**5.1 Identify and apply review criteria to selected parts of the code and identify issues in the code**

**5.2 Construct an appropriate CI pipeline for the software**

**5.3 Automate some aspects of the testing**

**5.4 Demonstrate the CI pipeline functions as expected**