**Title**

**Software Requirement Specifications:** Provide the specifications, functionality and execution platform (e.g. processor type) of the software you are developing.  Describe in table form.

**Design Considerations:** Describe the issues that need to be addressed before creating a design solution (textual description in bulleted point form)

* Assumptions and Dependencies: Describe all assumptions that may be made in terms of requirement specifications, test conditions, tools or any dependencies on other things.
* General Constraints: Describe any constraints that could have an impact on the design of the software.
* Goals and Guidelines: Describe any goals and guidelines for the design of the software. (e.g. target instruction and data memory usage, execution time in terms of total execution cycles)
* Development Methods: Describe the software design method that will be used (e.g. tools, operating system, run time environment).

**Architectural Strategies:** Describe the strategies that will be used that will affect the system. (e.g. strategies/algorithms used in various modules and the entire system, data types and sizes used in various modules)

**Software Architecture:** This section should provide a high-level overview of how the functionality and responsibilities of the system were divided into modules/functions and then assigned to subsystems or components, together with the interfaces between modules/functions. Block diagram showing connections between blocks should be followed by short textual description in bulleted point form.

**Detailed System Design:** Describe modules/functions described in the Software Architecture section in detail. Description should contain inputs, outputs, and flow diagram / pseudo-code description of the algorithm used in the module/function.

**Testing:**

Describe testing method (eg python programme as reference). inputs used for testing, expected correct output (eg. from python programme), actual output obtained, deviation of actual output from correct output.