

APPRENTICE AUTOMATION CHALLENGE 2020

REPORT TITLE PAGE

A total of 100 marks will be awarded for the report. Sections within the report detail the available marks within the descriptions. Sections without prescribed marks will constitute the 20 remaining marks out of 100.

Please replace this dashed section with your project title and any cover image for the project.

Team Details

Team Name	
Project	
Company	

Team Members

First Name	Surname

Contents

List the contents of the report by page number.

Introduction

Briefly introduce the contents of the report and summarise the conclusions.
Word Limit: 750

Problem and Concept

*Describe the problem that will be tackled and outline the proposed solution concept.
Include any drawings in the appendix.*

Word Limit: 1500

Design Specification

This section is worth 30 marks. Provide any design documentation such as drawings, 3D model views and system architecture. Describe any unique/important features of the proposed system with supporting documentation. Include any calculations, assumptions and considerations that have been made.

Word Limit: 2500

Development

Evaluate your proposal in a manner you see fit (could be a SWOT analysis). Detail the development plan you will complete to validate your proposal based on your evaluation. This information can include evidence of any development work that has already been completed and required development with adequate test plans. Please include any pictures/diagrams you feel would help explain your development process.

Word limit: 1500

Manufacturing Process

This section is worth 30 marks. Outline the scope and specifications of the manufactured product. Include detailed descriptions of how you are planning manufacture the prototype and provide your process proposals for mass manufacture and distribution. Supporting evidence for your decisions should be included in this section.

Word Limit: 2500

Business Case

This section is worth 20 marks. Provide a business case for the proposed system. This could include market research, cost/profit projections and logistics considerations. Include any other analysis applicable.
Word Limit: 2000

Circular Economy / Environmental Considerations

Provide considerations made in your design, manufacture and business case to support the circular economy and minimise impact to the environment. Detail how elements of Reduce, Reuse, Recycle & Repair have been incorporated into the product lifecycle and include any further proposals once taken to market.

Some examples include: design of features for easy repair; selection of biodegradable or recyclable materials, where possible; or, including the environmental impact assessment as part of the selection of the proposed manufacturing processes.

Word Limit: 1000

Final Summary

Summarise the information contained within the report. Make remark to important points/discoveries of the project and lessons learned. Provide the complete final proposal and unique characteristics of the concept.
Word Limit: 1000

Appendix