**SCARA Arm Report**

*ENGR 110, 2016 T2*

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**Lab day & time:** [e.g. Tuesdays at 2:00pm – 4:00pm]

Throughout this lab report are task-numbered section headings for you to fill in. Make sure you read all the way to the end. Your report must not be more than 10 pages (excluding appendices and references)

***YOU MUST SUBMIT THIS REPORT AS A PDF FILE.***

**Abstract**

*The abstract is a brief summary of the report and contains the scope, motivation, results, the meaning of the results and the conclusion. The abstract is the first thing a person will read in your report. It is important to present the information in a clear, succinct manner to entice the viewer into reading your report.*

**Introduction**

*The introduction can be treated as a sequence of sub sections containing a scope, motivation, aim, objective and anticipated benefits. The intention is to present the problem to be solved and the motivation behind the problem. The scope defines what will be covered in the study.*

**Background**

*The background provides an introduction to the subjects that the reader needs to know to understand the report. It need not contain a literature review but it can contrast the alternatives to the approach of this report.*

**Method**

*The method explains how you did the experiment or study or project in sufficient detail that the experiment or project can be reproduced. Diagrams, schematics and pseudo code are often included. It is not to be written as a step-by-step guide.*

**Results**

*The results section should state the results and the important details of the experiment or project. This section may contain tables and graphs of the collected data. If the experiment was to compare simulated results against real life then graphs with both results on the same axis would be useful here.*

**Discussion**

*Normally, the discussion section should explain the results and the position taken on the experiment or project. For example, why was the finish of the printed object stringy? How could the finish be improved? Comparisons against previous studies or expected results can be discussed here.*

**Conclusion**

*This section should state what was found, why it is important, possible benefits and the position the experiment takes.*

**References**

*Please add good references here using APA referencing style. Some examples are included below to show the expected style.*

*Barlow, C. 2008, Key concepts in computing,* Oxford University Press, Auckland.

Curtis, M. J. 2002, ‘Experimental design’, *Journal of Engineering,* vol. 12, no. 4 , p. 45 *.*

Gregg, B. & Wilkins, R. 2005, ‘The development of skills teaching in engineering, programs in New Zealand universities’. *Education Quarterly,* vol. 36, no. 1, pp. 57-72, (online EBSCO database).

Hulme, A. 2007, *Engineering solutions,* Puddle Press, London.

Ministry of Science and Innovation 2011, *Strategic directions and strategies.*

Viewed 9 March 2013, http://www.msi.govt.nz/assets/MSI-2.pdf