Project Title

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| **First Author Name**  B00xxxxxx  CSCI 1108 Section x  Faculty of Computer Science  e-mail address | **Second Author Name**  B00xxxxxx  CSCI 1108 Section x  Faculty of Computer Science  e-mail address | **Third Author Name**  B00xxxxxx  CSCI 1108 Section x  Faculty of Computer Science  e-mail address | **Fourth Author Name**  B00xxxxxx  CSCI 1108 Section x  Faculty of Computer Science  e-mail address |

# Abstract

*The abstract is a brief summary of the entire report, brieﬂy stating the purpose of the project, what was done in the course of the project and what the results were. The abstract should be limited to 100 words.*

# Introduction

The Introduction sets the stage for the report. It should introduce the topic(s) and the problem(s) at hand, outline what was done in greater detail than the abstract, and discuss the results of the project. A student, having read the introduction, should have a clear picture of the problem and what the project accomplished.

For example, your introduction should briefly describe the area of robotics, then give an overview of your project, including the robot system that was used, the events in the robotics competition, the major problems encountered in the course of the project and the resulting solutions.

# Background

This section Background sets the context for the report. It describes previous work and concepts that were used in the project and discusses common assumptions made in the course of the project. This section will typically have quite a few citations because it discusses work, ideas, and concepts that preceded your project report.

For example, your background section should thoroughly describe the robot platform that was used, including its basic structures, the sensor capabilities, its mobility, and also the platform’s limitations. This section should also describe features that are common to the three events. Lastly, you should discuss (and cite) any related work that you encountered while working on the project.

The content in this section typically comprises material compiled from other sources. Be sure to properly cite all material that you reference in your report.

# Program description

This section answers several questions about your program for the Line Hurdles event. Namely, explains how the problem was solved and why was this solution chosen. Thus, the report must describe the event and the particular challenges that it entails.

The report must then describe your solution to the problem including **state transition diagram(s)**. It should describe the basic strategy of your solution and the tactics used to achieve it.

Lastly, and most important, your solution must be justiﬁed. You need to justify both your strategy and your tactics. I.e., Why did you decide on a particular strategy to solve the problem and why did you use the tactics your report describes. Your justiﬁcation should also describe the strengths and weaknesses of your solution.

# Results

Describes and analyzes the quality of your solutions. This section will be based on the competition that will take place at the end of the module and should describe how well your programs performed, why the programs performed as well or as poorly as they did, and how well your programs performed relative to other programs. For example, your Hurdles program may have completed in 97 seconds, but this does not mean anything until you mention that only seven other programs completed this event and that the times were 93, 96, 101, 102, 106, 120, and 130, indicating that your program was one of the better ones.

# Conclusion and Future work

This is a summary of the report with particular emphasis on the results of the project. After a final synopsis, you should describe what else you would have liked to do with your project, how the project could be improved or extended, etc. Important ideas that were part of the solutions should be recapped here. Lastly, this section describes what should be done if more time to improve the program was available.

# References

References contain a complete citation listing of other works that you referred to or used which includes Wikipedia. Citations in computer science are typically done using end-notes [4]. However, using other styles such as the APA [1], Chicago Manual of Style [3], ACM [2], etc, are all acceptable as long as they are used consistently.

[1] American Psychological Association. *Publication Manual of the American Psychological Association*. American Psychological Association, Washington, DC, USA, 6th edition, 2009.

[2] Association for Computing Machinery. <http://www.acm.org/publications/submissions>. Accessed August 17, 2012.

[3] University of Chicago Press Staff, editor. *The Chicago Manual of Style*. University of Chicago

Press, 15th edition, 2003.

[4] Mary-Claire van Leunen. *A Handbook for Scholars*. Oxford University Press, New York, revised edition, 1992.