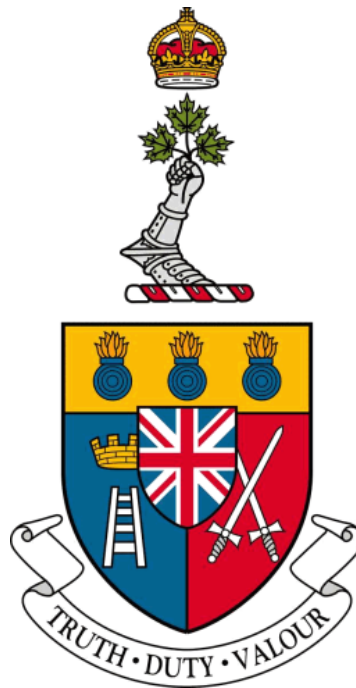


ROYAL MILITARY COLLEGE OF CANADA

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING



DID-03 - Statement of Requirements

Presented by:

Amos Navarre HEBB & Kara STEPHAN

Presented to:

Dr. Sidney GIVIGI

September 14, 2018

Contents

1	Introduction	2
1.1	Document Purpose	2
1.2	Background	2
1.3	Aim	2
1.4	Scope	2
2	Requirement Definition Activities	3
2.1	Information	3
2.1.1	Meetings with Dr. Givigi	3
2.2	How References Were Used	3
2.2.1	First Reference	3
2.2.2	Another Reference	3
3	Product Requirements	4
3.1	Functional Requirements (FR)	4
3.1.1	FR-01: First Thing To Do	4
3.1.2	FR-02: Second Thing To Do	4
3.2	Performance Requirements (PR)	4
3.2.1	PR-01	4
3.3	Interface Requirements (IR)	4
3.3.1	IR-01	4
3.4	Simulation Requirements (SimR)	4
3.4.1	SimR-01	4
3.5	Implementation Requirements (ImpR)	4
3.5.1	ImpR-01	4
3.5.2	ImpR-02: Turtlebot Robot Operating System	4
3.6	Schedule Restrictions (SR)	4
3.6.1	SchR-01: First Prototype	4
4	Risk Assessment	5
4.1	Risks	5
4.2	Likelihood	5
4.3	Impact	5
5	Conclusion	6
5.1	Summary	6
5.2	Link to Preliminary Design Specification	6

Part 1

Introduction

1.1 Document Purpose

1.2 Background

1.3 Aim

1.4 Scope

Part 2

Requirement Definition Activities

2.1 Information

2.1.1 Meetings with Dr. Givigi

2.2 How References Were Used

2.2.1 First Reference

2.2.2 Another Reference

Part 3

Product Requirements

3.1 Functional Requirements (FR)

3.1.1 FR-01: First Thing To Do

3.1.2 FR-02: Second Thing To Do

3.2 Performance Requirements (PR)

3.2.1 PR-01

3.3 Interface Requirements (IR)

3.3.1 IR-01

3.4 Simulation Requirements (SimR)

3.4.1 SimR-01

3.5 Implementation Requirements (ImpR)

3.5.1 ImpR-01

3.5.2 ImpR-02: Turtlebot Robot Operating System

The simplest obstacle avoidance algorithm must be implemented on a Turtlebot using the Robot Operating System

3.6 Schedule Restrictions (SR)

3.6.1 SchR-01: First Prototype

The first functional prototype shall be available for Beta testing no later than November 1st

Part 4

Risk Assessment

4.1 Risks

4.2 Likelihood

4.3 Impact

Part 5

Conclusion

5.1 Summary

5.2 Link to Preliminary Design Specification

References