

McMaster University

Draft System Requirements SE 4G06

GROUP 6

Alex Jackson Jean Lucas Ferreira Justin Kapinski Matthew Hobers Radhika Sharma Zachary Bazen

Contents

Н	revisions	3
1	1.1 The 1.2 The	t Drivers Purpose of the Project
2	2.1 Mai 2.2 Nar	t Constraints 5 Indated Constraints 5 Indig Conventions and Definitions 5 Indig Conventions and Assumptions 5 Indig Conventions 5 Indig Convention
3	Functi	onal Requirements 5
4	4.1 Loo 4.2 Usa 4.3 Per 4.4 Pre 4.5 Ope 4.6 Mai 4.7 Sec 4.8 Cul	nctional Requirements5ok and Feel Requirements5ability and Humanity Requirements6formance Requirements6cision Requirements6erational an Environmental Requirements7intainability and Support Requirements7curity Requirements7tural and Political Requirements8yal Requirements8
5	5.1 Ope 5.2 Off- 5.3 New 5.4 Mig 5.5 Risl 5.6 Cos 5.7 Use	It Issues8en Issues8-the-Shelf Solutions8w Problems8gration to the New Product8ks9ets9er Documentation and Training9iting Room9
L	ist of	Tables
	1 V	IC Table of Revisions

Revisions

Date	Revision Number	Authors	Comments
November 7, 2016	Revision 0	Alex Jackson Jean Lucas Ferreira Justin Kapinski Matthew Hobers Radhika Sharma Zachary Bazen	N/A

Table 1: VIC Table of Revisions

*** These headings to be double checked against template to ensure no topics missed ***

1 Project Drivers

1.1 The Purpose of the Project

The purpose of this project is to allow autonomous cars to identify and navigate intersections by providing an appropriate order to proceed through the intersection. Currently multiple autonomous cars arriving at an intersection a the same time have no decision protocol that will determine which car proceeds first through the intersection. {((From project goals) VIC will allow autonomous vehicles to identify intersections and form a unanimous consensus of the order in which vehicles should proceed through an intersection. In addition, VIC will be able to dynamically handle changing scenarios at an intersection without running into deadlock or stalemate situations. To ensure safety, VIC will allow cars to navigate through the intersection only after a unanimous consensus has been made. }

1.2 The Client, the Customer, and Other Stakeholders

1.2.1 Client

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

1.2.2 Customer

Insert Text Here.

1.2.3 Stackholders

Insert Text Here.

1.3 Users of the Product

2 Project Constraints

2.1 Mandated Constraints

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

2.2 Naming Conventions and Definitions

Insert Text Here.

2.3 Relevant Facts and Assumptions

Insert Text Here.

3 Functional Requirements

This section is taken from IEEE

VHL-1: Requirement 1
VHL-1: Requirement 2

ITC-1: Controller Requirement 1ITC-1: Controller Requirement 2

TRK-1: Track Requirement 1 **TRK-1:** Track Requirement 2

4 Nonfunctional Requirements

4.1 Look and Feel Requirements

4.1.1 Appearance Requirements

4.1.2 Style Requirements

Insert Text Here.

4.2 Usability and Humanity Requirements

4.2.1 Ease of Use Requirements

Insert Text Here.

4.2.2 Personalization and Internationalization Requirements

Insert Text Here.

4.2.3 Learning Requirements

Insert Text Here.

4.2.4 Understandability and Politeness Requirements

Insert Text Here.

4.2.5 Accessibility Requirements

Insert Text Here.

4.3 Performance Requirements

4.3.1 Speed Requirements

Insert Text Here.

4.3.2 Safety-Critical Requirements

Insert Text Here.

4.4 Precision Requirements

Insert Text Here.

4.4.1 Reliability or Availability Requirements

Insert Text Here.

4.4.2 Robustness or Fault-Tolerance Requirements

Insert Text Here.

4.4.3 Capacity Requirements

4.4.4 Scalability or Extensibility Requirements

Insert Text Here.

4.4.5 Longevity Requirements

Insert Text Here.

4.5 Operational an Environmental Requirements

4.5.1 Expected Physical Environment

Insert Text Here.

4.5.2 Requirements for Interacting with Adjacent Systems

Insert Text Here.

4.5.3 Production Requirements

Insert Text Here.

4.5.4 Release Requirements

Insert Text Here.

4.6 Maintainability and Support Requirements

4.6.1 Maintenance Requirements

Insert Text Here.

4.6.2 Supportability Requirements

Insert Text Here.

4.6.3 Adaptability Requirements

Insert Text Here.

4.7 Security Requirements

4.7.1 Access Requirements

Insert Text Here.

4.7.2 Integrity Requirements

4.7.3 Privacy Requirements

Insert Text Here.

4.7.4 Audit Requirements

Insert Text Here.

4.7.5 Immunity Requirements

Insert Text Here.

4.8 Cultural and Political Requirements

4.8.1 Cultural Requirements

Insert Text Here.

4.8.2 Political Requirements

Insert Text Here.

4.9 Legal Requirements

4.9.1 Compliance Requirements

Insert Text Here.

4.9.2 Standards Requirements

Insert Text Here.

5 Project Issues

5.1 Open Issues

Insert Text Here.

5.2 Off-the-Shelf Solutions

Insert Text Here.

5.3 New Problems

Insert Text Here.

5.4 Migration to the New Product

5.5 Risks	
Income Total Long	
Insert Text Here.	
5.6 Costs	
Insert Text Here.	
5.7 User Documentation and Training	
Insert Text Here.	
5.8 Waiting Room	
Insert Text Here.	

Draft System Requirements VIC - Group 6

Revision: 0