



Vehicle Intersection Control

McMASTER UNIVERSITY

Draft System Design

SE 4G06

GROUP 6

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1 Revisions

Date	Revision Number	Authors	Comments
December 12, 2016	Revision 0	Alex Jackson Jean Lucas Ferreira Justin Kapinski Mathew Hoberg Radhika Sharma Zachary Bazen	N/A

Table 1: VIC Table of Revisions

2 Introduction

*****BASED ON SUGGESTED CONTENT AND DOCUMENTS FOUND ON AVENUE
WE NEED TO FIGURE OUT APPROPRIATE NAMING AND LABELING FOR V&V
STUFF *****

2.1 Document Purpose

Insert Text Here.

2.2 System Scope

Insert Text Here.

2.3 Document Overview and Intended Audience

Insert Text Here.

2.4 Document Conventions

Insert Text Here.

2.4.1 Naming Conventions

AB1234	Description
CD4567	Description
EF89410	Description

2.4.2 Formatting Conventions

Convent 1	Description
Convent 2	Description
Convent 3	Description

2.5 References and Acknowledgments

Insert Text Here.

3 Monitored Variables

m_Variable	Unit
m_Variable 2	Unit
m_Variable 3	Unit

4 Controlled Variables

c_Variable	Unit
c_Variable 2	Unit
c_Variable 3	Unit

5 System Overview

Insert Text Here.

5.1 Behavior Overview

Insert Text or Image Here.

5.2 Context Diagrams

Insert Text or Image Here.

5.3 System Component Diagrams

Insert Text or Image Here.

6 System Components

6.1 Intersection Control Component

Identification	-
Inputs	-
Outputs	-
Description	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur 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.

Timing Constraints	Insert Timing Constraints Here
Initialization	Insert Initialization Stuff Here

6.2 RC Vehicle Component

Identification	-
Inputs	-
Outputs	-
Description	<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur 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.</p>
Timing Constraints	Insert Timing Constraints Here
Initialization	Insert Initialization Stuff Here

7 Subsystem Components

7.1 Hardware

7.1.1 The First Hardware Component

Identification	-
Inputs	-
Outputs	-
Description	Insert Description Here
Timing Constraints	Insert Timing Constraints Here
Initialization	Insert Initialization Stuff Here

7.1.2 The Second Hardware Component

Identification	-
Inputs	-
Outputs	-
Description	Insert Description Here
Timing Constraints	Insert Timing Constraints Here
Initialization	Insert Initialization Stuff Here

7.2 Software

7.2.1 The First Software Component

Identification	-
Inputs	-
Outputs	-
Description	Insert Description Here
Timing Constraints	Insert Timing Constraints Here
Initialization	Insert Initialization Stuff Here

7.2.2 The Second Software Component

Identification	-
Inputs	-
Outputs	-
Description	Insert Description Here
Timing Constraints	Insert Timing Constraints Here
Initialization	Insert Initialization Stuff Here

8 Module Interface Design

8.1 MID 1

NEED TO LOOK UP MID TABLE STYLES. WHATS A GOOD WAY TO DO THIS?

Insert Text Here	Insert Text Here
Insert Text Here	-

8.2 MID 2

Insert Text Here	Insert Text Here
Insert Text Here	-

8.3 MID ETC

Insert Text Here	Insert Text Here
Insert Text Here	-

9 Normal Operation

Insert Text Here.

10 Undesired Event Handling

Insert Text Here.

11 References

Possible References Here