



Vehicle Intersection Control

McMASTER UNIVERSITY

Verification and Validation

SE 4G06

GROUP 6

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1 Revisions

Table 1: VIC Table of Revisions

Date	Revision Number	Authors	Comments
February 27, 2017	Revision 0	Alex Jackson Jean Lucas Ferreira Justin Kapinski Mathew Hober Radhika Sharma Zachary Bazen	N/A

2 Purpose

<Text Here>

3 Validation

3.1 Project Goals

<Text Here>

3.2 Functional Validation

<Text Here>

3.3 Behaviour Validation

<Text Here>

4 Verification

4.1 Hardware Verification

4.1.1 Individual Vehicle Hardware Component Verification

4.1.1.1 Component 1 Verification

Test ID	Requirement ID	Description	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
HC1.1	#	- Description	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
HC1.2		<Text Here>	<Text Here>	<Text Here>	<Text Here>	-
HC1.3						-
HC1.4						-

4.1.1.2 Component 2 Verification

Test ID	Requirement ID	Description	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
HC2.1	#	- Description	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
HC2.2		<Text Here>	<Text Here>	<Text Here>	<Text Here>	-
HC2.3						-
HC2.4						-

4.1.1.3 Component 1 Verification

Test ID	Requirement ID	Description	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
HC3.1	#	- Description	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
HC3.2		<Text Here>	<Text Here>	<Text Here>	<Text Here>	-
HC3.3						-
HC3.4						-

4.1.2 Integrated Vehicle Hardware Component Verification

4.1.2.1 Integrated Verification

Test ID	Requirement ID	Description	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
IHC1.1	#	- Description	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
IHC1.2		<Text Here>	<Text Here>	<Text Here>	<Text Here>	-
IHC1.3						-
IHC1.4						-

4.2 Software Verification

4.2.1 Vehicle Software Verification

4.2.1.1 <Module Name>

Test ID	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
VSC1.1	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
VSC1.2	<Text Here>	<Text Here>	<Text Here>	-
VSC1.3				-
VSC1.4				-

4.2.1.2 <Module Name>

Test ID	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
VSC2.1	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
VSC2.2	<Text Here>	<Text Here>	<Text Here>	-
VSC2.3				-
VSC2.4				-

4.2.2 Intersection Controller Software Verification

4.2.2.1 <Module Name>

Test ID	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
IC1.1	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
IC1.2	<Text Here>	<Text Here>	<Text Here>	-
IC1.3				-
IC1.4				-

4.2.3 Integrated Vehicle Intersection Software Verification

4.2.3.1

Test ID	Input	Expected Behaviour	Actual Behaviour	Pass/Fail
VIC.1	- input 1 - input 2 etc.	- Behaviour stuff goes here. Some more stuff	- Actual stuff goes here. Some more stuff	Pass
VIC.2	<Text Here>	<Text Here>	<Text Here>	-
VIC.3				-
VIC.4				-