

Software Requirements Specification for Mechatronics: subtitle describing software

Author Name(s)

October 4, 2022

Contents

1	Reference Material	iii
1.1	Terms, Abbreviations, and Acronyms	iii
2	Introduction	2
2.1	Purpose of Document	2
2.2	Scope	2
2.2.1	In-Scope	2
2.2.2	Out-of-Scope	2
2.3	Usual Operations	2
2.4	Users and Stakeholders	2
3	Project Constraints	2
3.1	Constraints	2
3.2	Assumptions	2
4	Context Diagrams	2
5	Functional Decomposition	2
5.1	Data Flow Model	2
5.2	Monitor and Controlled Variables	2
6	Functional Requirements	2
6.1	Camera Functional Requirements	2
6.2	Machine Learning Functional Requirements	2
7	Functional Requirement Change Likelihood	2
7.1	Camera Functional Requirements	2
7.2	Machine Learning Functional Requirements	2
8	Non-functional Requirements	2
8.1	Accuracy Requirement	2
8.2	Usability Requirement	2
8.3	Portability Requirement	2
9	References	2
10	Appendix	2
10.1	Reflection	2

Revision History

Date	Version	Notes
Date 1	1.0	Notes
Date 2	1.1	Notes

1 Reference Material

1.1 Terms, Abbreviations, and Acronyms

Term, Abbreviation, or Acronym	Description
Term	Description

2 Introduction

2.1 Purpose of Document

2.2 Scope

2.2.1 In-Scope

2.2.2 Out-of-Scope

2.3 Usual Operations

2.4 Users and Stakeholders

3 Project Constraints

3.1 Constraints

3.2 Assumptions

4 Context Diagrams

5 Functional Decomposition

5.1 Data Flow Model

5.2 Monitor and Controlled Variables

6 Functional Requirements

6.1 Camera Functional Requirements

6.2 Machine Learning Functional Requirements

7 Functional Requirement Change Likelihood

7.1 Camera Functional Requirements

7.2 Machine Learning Functional Requirements

8 Non-functional Requirements

8.1 Accuracy Requirement

8.2 Usability Requirement

8.3 Portability Requirement

2

9 References

10 Appendix