
Software Design Document (SDD)

for

<Lunar Rover Mapping Robot>

Prepared by [REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Contents

1	Introduction	4
1.1	Purpose	4
1.2	Scope	4
1.3	References	4
1.4	Overview	4
1.5	Constraints	5
2	System Overview	6
3	System Architecture and Components Design	7
3.1	Architectural Description	7
3.2	Component Decomposition Description	8
3.3	Detailed Components Design Description	9
3.4	Architectural Alternatives	11
3.5	Design Rationale	12
4	Database	13
5	Design Details	15
5.1	Class Diagrams	15
5.2	State diagram	22
5.3	Interaction Diagrams	24
6	Human Interface Design	30
6.1	Overview of the User Interface	30
6.2	Detailed Design of the User Interface	31
7	Resource Estimates	38
7.1	Hardware Requirement	38
7.2	Software Requirement	38
8	Definitions, Acronyms, and Abbreviations	39

Revision History

Student ID	Name	Date	Description
			Initial Template
			Draft on Introduction
			Draft on System Overview
			Review and make amendment
			Draft on Database
			Draft on Section 8
			Draft on Design Details
			Draft on Human Interface Design
			Draft on Resource Estimates
			Draft on System Architecture and Component Design
			Review and make amendment
			Draft on System Architecture and Component Design
			Add on for Design Details
			Add on for Section 8
			Review and make amendment
			First Draft Version
			Add on for Section 3 and Section 5
			Final Version