

The University of Adelaide
COMP SCI 3006/7015 Software Engineering and Project

Software Design Document (SDD)

for

Road Closure Marking Robot

Version 0.1

Prepared by Group 2

Contents

1	Introduction	3
1.1	Purpose	3
1.2	Scope	3
1.3	References	3
1.4	Overview	3
1.5	Constraints	3
2	System Overview	3
3	System Architecture and Components Design	3
3.1	Architectural Description	3
3.2	Component Decomposition Description	3
3.3	Detailed Components Design Description	3
3.4	Architectural Alternatives	3
3.5	Design Rationale	3
4	Data Design	4
4.1	Database Description	4
4.2	Data Structures	4
5	Design Details	5
5.1	Class Diagrams	5
5.2	State Diagrams	6
5.3	Interaction Diagrams	7
6	Human Interface Design	8
6.1	Overview of the User Interface	8
6.2	Detailed Design of the User Interface	8
7	Resource Estimates	9
8	Definitions, Acronymns and Abbreviations	9

Change History

Date	Version	Reason for Change
10th Sept	0.1	Initial draft

1 Introduction

1.1 Purpose

1.2 Scope

1.3 References

1.4 Overview

1.5 Constraints

2 System Overview

3 System Architecture and Components Design

3.1 Architectural Description

- Architectural Pattern: Pipe and Filter
- Control Style: Centralised (Manager Model)

3.2 Component Decomposition Description

- Object Oriented Style

3.3 Detailed Components Design Description

3.4 Architectural Alternatives

3.5 Design Rationale

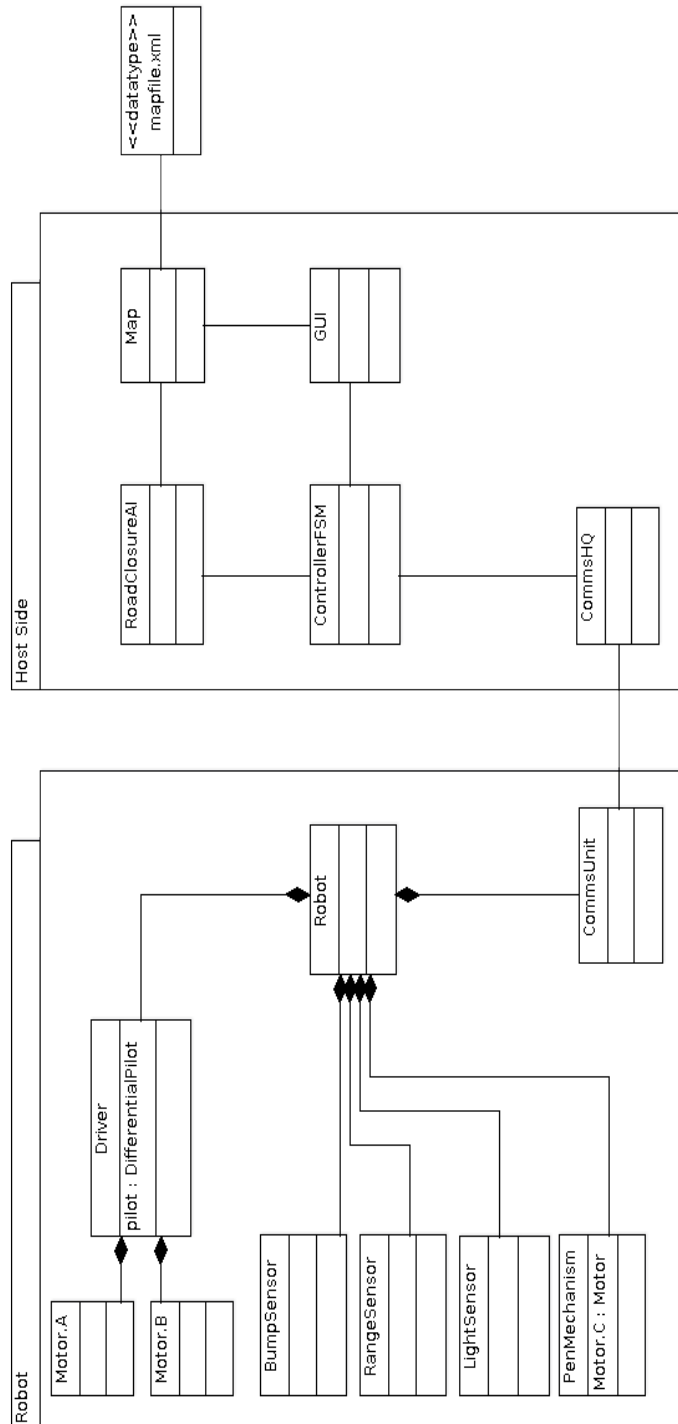
4 Data Design

4.1 Database Description

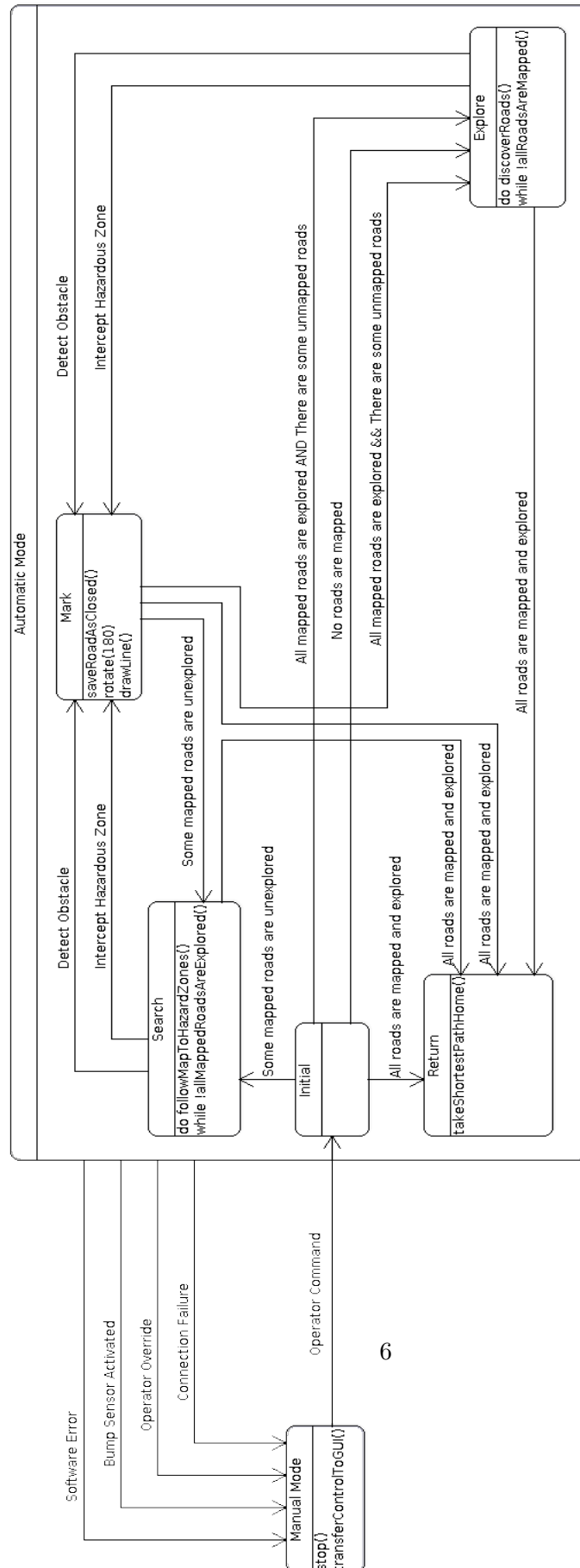
4.2 Data Structures

5 Design Details

5.1 Class Diagrams



5.2 State Diagrams



5.3 Interaction Diagrams

6 Human Interface Design

6.1 Overview of the User Interface

6.2 Detailed Design of the User Interface

7 Resource Estimates

8 Definitions, Acronymns and Abbreviations