Development and Proof of a Submarine Copntrol System

Dylan Tyrie-Dron

SET10112

Abstract. This is where your abstract would go.

1   Introduction

Sections look like this

– non-numbered lists look like this.

Internal referencing is done like this §1.

2   Controller Structure

The controller consists of many small parts.

2.1   First Requirement

The first requirement was to make sure that at least one door is closed at all times.

2.2   Second Requiement

The second requirement was to ensure that the submarine could not perform any operations unless two doors were locked and closed.

2.3   Third Requirement

For the third requirement the submarine first had to have the ability to change depths. Secondly, the submarine had to ensure that when oxygen levels went below a certain threshold a warning will show. After this, the submarine has to re-surface after the oxygen is empty.

2.4   Fourth Requirement

The fourth requirement instructed is that the submarine must surface if the nuclear reactor overheats.

2.5 Fifth Requirement

Another requirement is that the submarine cannot dive beneath a certain depth.

2.6 Sixth Requirement

The last requirement was to make sure the submarine could load, store and fire torpedos safely.

3 Desciptions of Procedures and Functions

4 Proof of Consistency

5 Conclusion