

# Hazard Analysis Software Engineering

Team #2, Campus Connections

Waseef Nayeem

Zihao Du

Matthew Miller

Firas Elayan

Abhiram Neelamraju

Michael Kim

Table 1: Revision History

<b>Date</b>	<b>Developer(s)</b>	<b>Change</b>
Date1	Name(s)	Description of changes
Date2	Name(s)	Description of changes
...	...	...

# Contents

<b>1</b>	<b>Introduction</b>	<b>1</b>
<b>2</b>	<b>Scope and Purpose of Hazard Analysis</b>	<b>1</b>
<b>3</b>	<b>System Boundaries and Components</b>	<b>1</b>
<b>4</b>	<b>Critical Assumptions</b>	<b>1</b>
<b>5</b>	<b>Failure Mode and Effect Analysis</b>	<b>1</b>
<b>6</b>	<b>Safety and Security Requirements</b>	<b>1</b>
6.1	Safety Requirements . . . . .	1
6.2	Access Requirements . . . . .	2
6.3	Integrity Requirements . . . . .	2
6.4	Privacy Requirements . . . . .	2
6.5	Audit Requirements . . . . .	2
6.6	Immunity Requirements . . . . .	2
<b>7</b>	<b>Roadmap</b>	<b>2</b>

[You are free to modify this template. —SS]

## 1 Introduction

[You can include your definition of what a hazard is here. —SS]

## 2 Scope and Purpose of Hazard Analysis

## 3 System Boundaries and Components

## 4 Critical Assumptions

[These assumptions that are made about the software or system. You should minimize the number of assumptions that remove potential hazards. For instance, you could assume a part will never fail, but it is generally better to include this potential failure mode. —SS]

## 5 Failure Mode and Effect Analysis

[Include your FMEA table here —SS]

## 6 Safety and Security Requirements

[Newly discovered requirements. These should also be added to the SRS. (A rationale design process how and why to fake it.) —SS]

### 6.1 Safety Requirements

- The product shall not transmit information while not in use.
  - **Rationale:** This requirement limits the battery usage of the product.
  - **Fit Criterion:** The product will not execute any code that involves the transmission of information outside of the product.

## 6.2 Access Requirements

## 6.3 Integrity Requirements

## 6.4 Privacy Requirements

## 6.5 Audit Requirements

## 6.6 Immunity Requirements

# 7 Roadmap

[Which safety requirements will be implemented as part of the capstone timeline? Which requirements will be implemented in the future? —SS]

Safety Requirements to be implemented for capstone:

- The product shall not transmit information while not in use.

Safety Requirements to be implemented after capstone:

-