

Hazard Analysis Greenway

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1 Introduction

1.1 Background

1.1.1 Scope

The scope of the proposed software, Greenway, is a mapping software that not only gives fuel efficient directions to the intended destination but provides the user with fuel cost calculations. The intention is to calculate fuel costs using gas price data, car mileage information and terrain information to show how much money it will take to get to the intended destination using the most fuel efficient route.

1.1.2 Document Purpose

The purpose of this document is to identify potential hazardous components of Greenway and methods to mitigate these risks to an acceptable level. The following sections describe details of potential hazards in depth for each subsystem which also helps to understand how the system works as a whole to avoid these hazards.

2 Component Overview

Below describes each of the subsystems that make up the larger system.

3 Safety Considerations

4 FMEA Worksheet

5 Conclusion

In summary, it is important to realize the potential hazards of each function to avoid potential risks and negative experiences for the user. The above document contents highlight important safety considerations along with risks/failures for each function. This will ensure the program is developed with expected behaviour.