

## 1 Introduction

- ☐ Put apostrophe in "document's" in first sentence. Also reword that first sentence, "of this document" sounds bad.
- ☐ "APCA System" is not defined before we use it.
- ☐ When talking about the different sections, do it in the same style. Either in parenthesis at the end of the sentence, or at the beginning of the sentence.
- ☐ We also forgot to summarize what is in Section 7. A missing space and a semicolon that should just be a comma.

### 1.1 Purpose

- ☐ APCA is defined here, might want to move this to the introduction.
- ☐ Put an s at the end of "specification".
- ☐ Also mention that this document is for developers AND CUSTOMERS.

### 1.2 Scope

- ☐ Reword the last sentence, don't use the phrase "to sum up".

### 1.3 Definitions, acronyms, and abbreviations

- ☐ We use the word "state" in the definition of "state".
- ☐ We also use "vehicle" in the definition of "vehicle".
- ☐ The definition of "fail safe" is not clear. Explain why, and define response time.

### 1.4 Organization

- ☐ Make consistent with section references. Instead of saying "second section", say "Section 2".
- ☐ Just say UML diagrams instead of listing off Use case, class, and state.
- ☐ In the last sentence, we have capital letters that shouldn't be there.

## 2 Overall Description

- ☐ It is supposed to be an overview of section 2, not an explanation.

### 2.1 Product Perspective

- ☐ BWW should be BBW.
- ☐ Add a Data Flow Diagram.

### 2.2 Product Functions

- ☐ In the “Restore Velocity” point, make the “and” an “either/or”.
- ☐ In the same point, redundant that we say braking has been applied?
- ☐ Reword the “Fail Safe” point. Explain what “200ms to 900ms” means.
- ☐ Add a Goal Diagram.

### 2.4 Constraints

- ☐ In definition section, explain g. Also g is for gram, use proper notation for gravity.

### 2.5 Assumptions and Dependencies

- ☐ Add an s to the end of “kilometer”.
- ☐ Explain what “infinite acceleration” means. Maybe “accelerate instantly”?

## 3 Specific Requirements

- ☐ In point 1a, get rid of “and before pedestrian speed and add a comma after.
- ☐ In point 1b, add time units (ms?) after 200. Also spell out deceleration.
- ☐ In point 1b, gravity is defined, this should be in the definition section, not here.
- ☐ In point 2a, we use kph and m/s. Stick to one and use throughout document.
- ☐ In point 2b, explain infinite acceleration.
- ☐ In point 3, explain recalculation. Also, “responding appropriately” to what? braking?
- ☐ In point 5, get rid of “automatically”.

- ☐ In point 6, focus on the pedestrian?
- ☐ In point 7, remove capitalization of “Zero Collisions”

#### 4 Modeling Requirements

- ☐ Discuss the includes in the introduction paragraph.
- ☐ In the title above the use case diagram “USE” is all caps and “Part” should be “Section”. We should make all the headings for different diagrams uniform.
- ☐ In the Use Cases capitalize the E in Essential of the type for “Avoids Pedestrian” and “Scan for obstacles”. Also capitalize “Scan for Obstacles”.
- ☐ For Class Diagrams intro paragraph, discuss the check for the fail safe and explain the notations for the associations (diamond, \*, links, attributes).
- ☐ For class diagram, maybe add a setter for the Fail Safe bit between APCA System and Vehicle classes.
- ☐ Also might consider setters for PedestrianDanger and PedestrianFound.
- ☐ Rename the “Velocity” attribute in Vehicle to “InitialVelocity”.
- ☐ For the State Diagrams, get rid of the first one that is just CalculateLostTime. It is useless.
- ☐ Also in the introduction paragraph, explain the notations.
- ☐ For the Sequence Diagrams, explain the notations in the introduction paragraph.
- ☐ Change around the arrows so the Actor interacts with everything, and everything comes back to Actor at the end.

#### 5 Prototype

- ☐ Get rid of the comma after “Since” in the second sentence.
- ☐ Reword the third sentence. “The scenarios in the project specifications gave detail on how the system should respond to them.”
- ☐ At the very end of that section, delete everything after the bullet point, that is not supposed to be there.

## 5.1 How to Run Prototype

☐ Specify browsers. IE6? Firefox? Chrome? etc.

☐ Change “are we supposed to” to “should”.