SRS Review Notes and Comments
APCA-1: Team Pedestrian Safety System
November 26, 2012

Reviewer 1

- Confusing between Disable sensor, disabling system, and shutdown system
    - Go into more detail about the difference between the three
- 1.1
    - For the audience, we should include future developers
    - Need to clarify if sensor and brakes are subsystems or not
- 1.2
    - Issue with travel time
    - Some parts discussed are out of the scope of the project
        - Should they be included?
    - The terms "Imminent" and "Potential" are synonymous
        - Choose one
- 1.3
    - Abbreviations BBW and BA are not consistent
        - Choose one or the other
    - PCA abbreviation is not defined
    - Safety controller is used before its referenced
- 2.1.1
    - Question about if the "BBW then applies to all four brakes"
        - If it does not, changes need to be made throughout document
- 2.1.2
    - Elaborate more about the output the driver sees or hears
        - Nothing is mentioned about the sound alerts
- 2.1.3
    - Convert to meters
- 2.1.4
    - Discussion about waypoints and destination may be out of the scope of the project
        - Does it need to be mentioned?
- 2.1.5
    - More issues with information being out of the scope
- 2.1.7
    - Check 2.1.1
        - Go into a little more detail about the user interface and what will be on there
            - Audio output to the user
- 2.4
    - Legal constraints
        - Is there any other besides the brake lights?
- 2.5
    - Assumptions and scenarios are too specific
        - Be more vague and able to talk about different inputs
        - Can the sensors detect up to 40 meters?

- 2.6
    - Add more detail about what it may be able to do in the future
        - Can the sensors only detect up to 15 pedestrians?
        - Look at Section 1.2 for future features
- 3
    - Are the other subsystems necessary to explain?
        - Are they out of the scope?
    - Sound alert is not mentioned in the specifications
        - Is it necessary?
    - #11
        - How can the car slow down if the system has shut down?
- 4
    - Diagrams
        - Use more description and notation
        - Especially class diagram
            - Explain aggregation, inheritance, and abstract classes
        - Match label and variable names of systems and functions between diagrams
        - Since applyBrakes() is implemented, should there be a releaseBrakes()?
        - Is the *print()* function necessary to include
            - Only used for development purposes
        - Explain what "Opt" means in the sequence diagrams
- 4.1
    - Use Case
        - Use the term "User" instead of "Driver"
        - More questions about the subsystems
- 4.2
    - Class diagram should be figure 4.2.1 not 4.1.1
    - Everything with star is too technical
    - May want to add the technical terms to the definitions section
    - Notation is very c++ based
        - Be more general
        - Generic across all programming languages
- 4.4.1
    - State diagram
        - Add another state diagram
            - Shut down system
        - Make sure all the lines are labeled
        - Use the term "User" instead of "Vehicle"
        - Would be easier to follow if the states are grouped to disable
        - Used brake by wire instead of BBW
        - More naming issues
            - Be consistent
- 4.4.3
    - There needs to be a releaseBrakes() or doneBraking state
- 5

    - More consistency issues with abbreviations
    - Wording issue with the word “Imminent”
        - See Section 1.2
- 5.1
    - Include the version number of the latest flash plugin
- 5.2
    - Talk about the range of inputs that a user of the prototype can enter
    - Include units of the parameters talked about
- 6
    - Do NOT use Wikipedia as a source

Reviewer 2

- 2.1
    - Give a complete description of this section
- 3
    - Change the wording to “notify the driver and disable the system”
    - Do not go as in depth with the subsystems
        - Another issue about the scope of the project
    - Make sure the work tense is consistent

Professor’s General Comments

- Avoid saying “This document will do…”
- All sections/subsections need to have some introductory sentence saying what will be there
    - Not just straight to bullets
    - What will the reader see
- 90% of cases, when using “which”, you need to use “that”
- “If” clause, “then” clause
- Avoid using words like “very”, “all”, “any”
- All figures must have a figure label
    - Label is put beneath the figure
    - Figure 1.1.1: Caption
    - Before the figure, say “This figures will show you…”
    - Capitalize “Figure”, “Table”, “Section”
- Label of table put above the table
    - Table 1.1.1: Caption
- All events of state diagram should be operations on class diagram and messages on sequence diagrams
- Beginning of each subsection of UML diagrams
    - Explain diagram and give notation description
- Notation between abbreviations and names of classes?????