

TankMate Team Projects II

Group 03 01/12/2023

Overview

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- Project design goals and primary function/performance requirements
- Approach to design
- Approach to test and analyze requirements
- Summary of Results
 - Demo (if available)
- Conclusions

Project Goals

- What did you set out to accomplish?

Set up software for individual/separate processes (raspberry pi, application etc.)

Maintain a strict and up-to-date schedule and minutes.

- Keep it simple and straightforward.
- This presentation is a final presentation.
- Its purpose is to tell management the final status

Design Approach

- How did you complete the design?
- Keep it at a high level.
- Discuss the method: mathematical analysis and simulation, or trial and error prototyping, commercial off the shelf hardware or software, custom design software, components or circuits
- Time is too short to explain details of the code, circuits, or mathematics. Only do so if it is absolutely critical to understand your test/analysis or the results

Approach to Test Requirement

- How did you determine if the design meets requirements?
- Consider the most important function or performance aspects of the design. Is the method direct observation? Or, do you have to analyze results?
- Explain the analysis method? Was it based on one observation or multiple observations?
- What are the threshold and objective? How were these values selected? Were they arbitrary or based on other designs, constraints or standards?

Summary of Results

- Does the design meet the requirements?
- Consider the types of requirements and report percentage completed of each type.
- What percentage was tested?
- What percentage passed? Did they pass the threshold and/or objective?
- What percentage failed? Did they fail by a little or a lot?
- Demo it if you got it

Conclusions

- What are your conclusions about the design?
- Base your comments on observation. Conjecture weakens credibility.
- What conclusions can you draw from the Senior Design experience?
- The Senior Design project was based on YOUR design, YOUR schedule and milestones, YOUR test plan, YOUR implementation, YOUR testing.
- Comment on what YOU would have done the same, or YOU would have done differently.

References