Rubric

443: 90-Second Expo Pitch and Outline

Criteria	Pts
Format: Is the pitch 90-seconds or less? Is it audible and intelligible?	0.0 pts
Introduction of Yourself: Are name, area(s) of specialization, anticipated degree and graduation date communicated?	5.0 pts
Project Overview: Is a clear statement of project purpose (what the system does, for whom, and why) included? Has the system been effectively described, including how it works, block design, and user operation? Have key technical achievements been highlighted?	10.0 pts
Your Roles: Have the speaker's specific blocks been mentioned, and have technical skills been highlighted? Have "soft" project management achievements and skills been highlighted?	5.0 pts
Professionalism: Is a professional tone used? Is language precise and accurate? Is confidence portrayed?	5.0 pts
Takeaway: Did the speaker leave the listener with three clear take-away points about the project?	5.0 pts
Outline: Was the outline PDF complete in addressing all of the topics and supporting points?	10.0 pts
Total Points: 40.0	

VIDEO

Introduction

Hello everyone,

Say names, graduate date, degree, areas of interest, and contribution:

My name is Joseph Conrow and I am graduating this Spring with an electrical and computer engineering degree with a minor in computer science. My interest is focused in the power system design field. In this project most of my contributions were within the website design and programming package implementation.

Project Overview

What project does, for whom, and why

This project's purpose is to design and build a functional alarm clock that can be configured from anywhere, using the internet. It is primarily intended for parents who wish to implement a

better sleeping schedule for their children with more ease and control, since sleep plays an important role in their academic performance and success.

How it works, user operation, and technical achievements:

Most importantly the clock emits an alarm during its set times using a speaker. The clock stores this information via wifi to a web server database, which users can log into to edit configuration. The current time is displayed on its built-in display. The alarm is predominantly plugged into a wall outlet but is designed with an internal battery supply that lasts up to 48 hr in case of any type of power outage.

Roles

I worked on the website interface, its internal code, and the microcontrollers communication code with the database. With this I learned Python, SQL, HTML, and javascript. Working on this project has helped my project management, ability to adapt to roles in a team, and improved self-sufficiency in learning new skills.

Takeaways

1) Connectivity: giving parents the power to improve the quality and length of their children's sleep.

2) Accessibility: easily allowing access to vital alarm access regardless of location.

3) Innovation: giving a market product that consumers don't have for a niche that is untapped.