ECE-218 Embedded Microcontroller Projects

Guided Project Deliverables - Project 2

Demonstration Video

The purpose of the video is to demonstrate both the functionality and your understanding of your final system. It will also evaluate your ability to communicate with the general public. **Assume that you are preparing the demo for a high school student or an adult without technical training.** Both partners should participate equally, and you should practice it a few times before filming. The video should be no longer than 5 minutes and there should be three parts:

1. Intro and goals: A segment that shows you (both) and your system, where you introduce yourselves and explain the project goals **in simple terms**, but in enough detail that the demo will be clear. You are answering the question "**what is this system supposed to do**?". Props to explain the goals are helpful for the audience, **please don't read a set of pre-written goals**!
2. Hardware: A segment that zooms in on the system, where you give an overview of the hardware, including the laptop terminal, and then point out the key system components (small things like resistors can be skipped) and explain the purpose of each one in the system function. Use simple terms that the general public will understand. "**The Nucleo board" for example, means nothing to most people.**
3. Code: Although you **should not review your actual code in this video**, since your audience will not understand it, you should communicate the role of the code in your system.
4. Demo: A segment where you demonstrate that the system is working correctly. Here you should remember all of the goals of the project and **point out as each is accomplished**. This is the most important part - to show that it works, and works well. Don't make it too short for the audience to really tell for sure.

Code

The code should have the **comments at the top of the file with your names**, and the intended behavior of the code. The code should be well organized, easy to follow and read, and have some meaningful comments that are helpful for understanding the system, especially for the code that you wrote yourself.

You will submit both your code and the executable file this time on Nexus:

1. Submit your code by pasting **the link from your personal GitHub account** into the Code assignment.
2. Also **upload the .bin file** from the working project.

In addition to reviewing your code to see that it is maintainable, I will also download the .bin file and