SIT210: Embedded Systems Development

Task 11.1PCDHD: Project Demo

Assessment Guidelines

You are expected to present a demonstration of your project via a recorded video during week 11. Any questions from the unit team will be directed to you on OnTrack and you should respond to questions (if any) posted on OnTrack.

Task Submission Details

- All students: Record a video demonstration of your project. Put your video on a shared drive (we need to be able to download your videos) and if you like on YouTube and submit the links to OnTrack. In this video you should demonstrate **purpose of your system**, its **different components** and its **operation**.

- All students: your demonstration will be via the video, hence questions we may have about your project (if any) will be asked on OnTrack. You will need to respond to these questions on OnTrack as well.

- Please consider the rubric below for your demo. This rubric includes a dedicated section about your project.

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Criteria	HD (High Distinction)	D (Distinction)	Credit (C)	Pass (P)	Fail (F)
Demo - Technical competence (GLO1)	Student is able to confidently relate functionality to embedded elements of the solution. Student can demonstrate critical thinking and problem solving abilities by devising and discussing plausible modifications and extensions (particularly ideas related to assigned project design concept).	Response to questions reveals that students understand fully the nature and mechanisms of the solution, and have explored other applications.	Response to questions reveals that student understands both the nature of the device and the mechanisms for using it embodied in the solution presented, but has not explored other applications (in particular: elements related to project design concept).	Able to response to basic questions and queries relating to the functionalities of the system prototype.	No submission, student is not familiar with operation of the solution, is not able to relate changes made to functionality presented, or clearly does not understand the processes involved.
Project	All Distinction criteria Cater for at least two more evaluation criteria (e.g. robustness, responsiveness, real-time, multi-threading) Demonstrate a more complete prototype (i.e. more attention to design, functionality, putting the devices and sensors together, etc.)	All Credit criteria The system solves a real-world problem or seeks to address a research question in a specific context or domain Prototype has been optimised and tested for fault tolerance Prototype does act depending on the situations or readings form environment or interaction with the user/environment Working prototype needs to be demoed at the end of the trimester	All Pass criteria At least two systems have been incorporated for a clear and justified purpose There is communication between devices using one of the communication protocols (e.g. I2C, SPI, etc.)	Prototype developed that uses device(s) and sensor(s) to solve a basic real problem. Essential programming has been done to develop the working prototype using a programming language of choice Project satisfies basic constraints of a working prototype (e.g. requirements, thoroughly tested, etc.)	Does not provide a project or a working prototype