Microsoft Forms

3/4/2021

Respondent

10:26

Time to complete

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Joseph Timoney

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IMAGE

1. MIEC major \*

projects can be relevant for one or more majors



Computer Science (CS)



Electronic Engineering (EE)

Multimedia and Web Development (MMWD)



Robotic and Intelligent Devices (RIDS)

2. Project description (300 words) \*

Provide a summary of the goals of the team project (each team will have around 5 members). Remember that these are for first year students, so adjust the level of difficulty accordingly. The final deliverable must be accompanied by a written report comprising 10 pages maximum.

An internet of things arduino musical device. This project is about using arduinos running the Mozzi sound library and controlling them using Internet of Things technology over wi- fi/bluetooth/ethernet. This is a new idea and it could be interesting how it could work out. To start with the project will create some simple drum sound and beat. If possible, then something more complex could be attempted. The idea is that a controller such as potentiometer or an x-y joystick could be used to control the sound over the connection. This could make a fun game that people could play in a room together. However, there could be some signals delays and the project will see how important that is.

3. Reference material and resources \*

These can be links to articles, URLs. etc

https://sensorium.github.io/Mozzi/learn/ https://arduinogetstarted.com/tutorials/arduino- iot https://www.instructables.com/ARDUINO-IOT-1/

https://osoyoo.com/2017/05/16/nodemcu-lesson-11-potentiometer-mqtt/

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https://subscription.packtpub.com/book/hardware\_and\_creative/9781789956870/3/ch03lvl1sec30/working with-the-joystick-sensor-module

4. Project type \*

Broad category of project - can involve more than one option



Software application (any domain)



Multimedia application Robotic application



Control systems application

5. Contact details \*

Name and email address for further information

jospeh timoney joseph.timoney@mu.ie

IMAGE

Project marking scheme

This is an adaptable marking scheme designed to be applied to different types of team projects. You have a range of marks that you can assign to particular sections of your proposed team project. Different projects may have different marking distributions.

\* NOTE: Given the final mark of each team, the mark of each individual in a team will be adjusted on top of the team mark and the results of group/individual interview at the end of the project to reflect the individual contribution of the project.

Please enter the specific mark you will allocate to each of the sections below.

6. Execution (10%): Evidence of project planning and progress - valid range 10 \* Reflective journal and progress reports on Moodle to show the continued progress from the start to end of the project, e.g., weekly progress or meeting notes.

10

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7. Final system (overall 35-45%) - valid range 35-45 \*

45

8. Report (overall 45-55%) - valid range 45-55 \*

55

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