Internet of Things and Rapid Prototyping

Midterm 2 Rubric

Performance to Expectations

* Meets – meeting the “Meets” expectations criteria will result in 80% of the total available points for a category.
* Exceeds – Performance above meets will result in 90% to 100% of the available points.
* Any “Meets” items not achieved will result in a deduction of points at the discretion of the instructor/assistant.

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| Category | Points | Exceeds | Meets |
| Product Proposal / Plan | 10 | Documented design plan with outline of project plan with daily milestones. Plan kept up to date daily throughout the project. | Documented design plan with outline of project plan with key milestones. |
| Product Design | 10 | Thorough conceptual drawings, hand drawn schematics, flowchart of overall functionality. | Conceptual drawing, flowcharts, and/or schematics in notebook. |
| Features | 20 | All components implemented. Data clearly displayed on OLED with date/timestamp. | Pump working. Both automatic and manual mode implemented. All sensors implemented: BME280, soil moisture, dust, air quality, Readings from all sensors presented on the OLED, though OLED formatting may look rough. |
| Code Quality | 10 | Code strictly follows style guide. Code is well formatted. Proper use of functions and global/local variables. Code is logical and easy to follow. Is appropriately, but not excessively, commented. | Code follows style guide, is reasonably commented, and compiles. |
| FUSE Makerspace | 10 | Enclosure made at FUSE. Provides a finished look to the watering system. | Use of 3D printing, laser, wood, metal, or store-bought enclosure for watering system. |
| Hackster.io | 10 | Hackster.io story detailed with description of motivation, capabilities, images, screenshots, etc. Fritzing, schematics and 2D/3D product files are viewable in Hackster.io (.stl, .jpg.) without need to download. | Minimal Hackster.io sections completed. Story section describes product / functionality. |
| Github | 10 | Github is updated as each new functional is added. Commit comments are easy to follow. Detailed README.md outlines project. | Github is committed daily. Proper created and used .gitignore. |
| Adafruit.io | 10 | Well laid out dashboard that includes all sensors, manual button, and enhances look/feel of overall project. | Data feed exists for several sensors and for a button. A graphical block exists for each data feed. |
| Presentation | 10 | Video demonstration of all required features. Manual and automatic modes implemented. | Video demonstration of most features working. |