

Title: Student Count in Marston Science Library and Library West

Proposer: Gator IoT

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Sponsoring Organization: Gator Internet of Things

Purpose:

As we speak, students constantly enter and exit the libraries at an unknown rate. Students are having problems finding spaces to study or meet up in. Gator IoT intends to implement a continuous count of students per floor in Marston Science Library and Library West. This information will be available to students through a user-friendly application that will give them a real time student count. This would give students the ability to decide where and when to study based on collected data. Faculty will also receive this data continuously through a spreadsheet.

Impact/Benefit:

Who will benefit?

- All students who use Marston Science Library and Library West
- Faculty who manage the Library
- Environmental Health & Safety Department
- University of Florida
- Students collaborating in the project

How will they benefit?

- Students will be able to get an accurate count of how many people are on each floor, which will allow them to decide which floor to study on.
- Faculty will be able to collect data in a more efficient manner resulting in decisions for future improvements.
- Environmental Health & Safety will be able to ensure that each floor has not exceeded maximum capacity.

- University of Florida will be able to keep a count of how many students are using the facility at various times, which can potentially result in the implementation in other campus locations.
- Everyone will have access to average people count in Marston in specific times during the day, days of the week, and months of the year, based on previous data collected.
- Students from different disciplines working on the project will get insight on different aspects of engineering and technology.

Sustainability:

All counters on each floor will be battery powered that will have a life span of approximately 6 months.

Technology Fee Concept Paper Proposal Template Preliminary Budget