



STUDENT SUSTAINABILITY COMMITTEE

Semesterly Report

Thank you for your commitment to green initiatives at the University of Illinois. One of the ongoing requirements listed in the terms of the funding agreement for your project is the submission of semesterly reports with key information about your project. In addition to this form, please provide additional financial documentation and/or progress photos if available.

Please be as accurate as possible in describing the project (including possible setbacks or challenges in meeting the initial goals of the project). Not fully meeting your project's goals will not disqualify you from making future funding requests as long as your reports are as complete and accurate as possible. If you have any questions, please contact the Student Sustainability Committee, at sustainability-committee@illinois.edu.

Project Name: Bicycle Registration and RFID Tracking Program

Date of Report Submission: 1/10/2018

Project Purpose:

Use radio frequency identification to register student and faculty bikes and track bike traffic across campus. This data will be used to optimize improvements to the bike infrastructure and provide incentives to encourage individuals to bike and develop healthy behaviors.

Detailed Accounting of Expenditures to Date:

- ThingMagic Micro-LTE Embedded RFID Reader Module Developer Kit \$699
- NodeMCU Internet Development Module \$6.90

Project Progress to Date:

The tags, antenna, reader units to use have been decided on. The tag mounting design is being finalized. We have a battery type and solar power unit in mind, but we cannot make final decisions until we fully understand the power usage of the reader and whole system. We are still in the process of programming the pipeline from the reader to the database.

Student Involvement and Outreach to Date:

None. Until our website is online and we are ready for distribution, there won't be much student or faculty involvement.

Marketing and Promotion Efforts to Date:

None. We are still in the phase of finalizing the technology. Once our system is ready for registration, we will reach out to students and faculty.