



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: Illini Formula Electric SAE

Date of Report Submission: 8/24/2017

Project Purpose:

Illini Formula Electric (IFE) is an engineering organization that designs and builds a fully-electric racecar each year for an international competition sponsored by the Society of Automotive Engineers (SAE). The racecar design project provides our team with essential engineering experience, and the development of electric automotive technology that can lead to a much greener future.

Detailed Accounting of Expenditures to Date:

Our team has a few different accounts, and so we have not spent any of our SSC account money yet because we had saved it to be used for this 2017-2018 year's racecar.

Project Progress to Date:

Our team accomplished great feats this competition season, 2017. At the competition in Lincoln, Nebraska, we passed all inspections for the first time in team history. The electrical inspection is notoriously difficult to pass. Only 11 of the 29 electric teams passed all the inspections. We then went on to drive in the autocross and endurance events, taking 4th in endurance and 7th in autocross. With endurance being the most important event of the competition, because it pushes the car to its limits in every way, these successes are huge for our team, and demonstrate true progress of the team and the engineering.

Student Involvement and Outreach to Date:

Our team is made up of around 40 students from all years and a variety of engineering majors. Through the extreme amount of work necessary to complete the racecar build each year, students receive experience and skills that they will never learn in the classroom. Members work on a

large variety of engineering projects, such as chassis force analysis, suspension kinematics design, battery cell thermal simulations, and printed circuit board design. These projects come together to create an exciting racecar in both its performance and its electrical technology, pushing the eco-friendly development of electrical vehicles and producing many students that are experienced and eager to begin careers in the areas of this technology. This year we will be pushing to expand our recruitment to business, marketing, photography and filmography students.

Marketing and Promotion Efforts to Date:

IFE attends the Engineering Expo and Engineering Open House at UIUC to present the car to both current students and the community to present about the electric technology and engineering opportunities at U of I. We also maintain our own website, www.illiniformulaelectric.com, and social media pages to update with progress of the team and recruit new members. We also participate in Quad Day and the Homecoming Parade. and are scheduled to appear at an electric vehicle showcase in Urbana on September 16 this year.

Additional Comments:

The sponsorship of SSC pushes our team to not only focus on the engineering of our racecar, but on the environmental benefits of electric vehicle technology, and to present this to large communities, and we appreciate this greatly.