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Respondent

11 Kaia Kelley

87:11

Time to complete

1. Date of this semester progress report submission *

12/09/25

2. Name of project exactly as it was listed in your award letter *

Ghost Electric Motorcycle

3. Date of original award letter *

04/19/2024

4. Date of expiration listed on award letter (or on scope change approval if more recent) *

04/03/2026

5. How much was your award (i.e., original award plus any approved budget increases)? *

9,666.07

6. How much of your award has been spent to date (in dollars)? *

9471.34

7. Date of forecasted project completion *

02/01/2026

8. Have you submitted one or more semester progress reports previously? *

YES

NO

9. Describe, in detail, what has been completed on the project since the last semester progress report (or since the project commenced if you have not yet submitted a semester progress report)? *

Since the last semester report, we have fully designed and started manufacturing our battery. Our drivetrain components are fully manufactured and on the bike as well as the suspension being redone and attached to the bike. Our controls team has designed and began manufacturing to connect all the sensors, as well as the battery, to the controller with extra fail safes. They have also began coding the controller to achieve the necessary controls. The frame team has designed a cradle to hold the battery and will begin manufacturing next semester. The aero team has conducted extensive testing and research to choose a material/manufacturing method for the fairings which are in the design process.

10. Describe, in detail, the project's challenges/obstacles since your last semester progress report (or since the project commenced if you have not yet submitted a semester progress report)? *

Challenges faced have been mostly financial related as well as personnel related. A lot of the parts we need to build the bike are very expensive and we were not making the necessary purchases until about midway through the semester. We also did not have a ton of members working on key aspects of our bike last semester which halted progress quite significantly. For a while, the battery team had very few members working on it so there was not much progress. With most of the team being engineers, they have also been busy with classes and projects so the progress on the bike hasn't been as quick as was desired. We also had a lot of problems with getting components once they were ordered. Some very important components took months to be delivered due to issues with the manufacturer/seller which stalled our progress as well.

11. Describe, in detail, the project's successes since your last semester progress report (or since the project commenced if you have not yet submitted a semester progress report)? *

Many of the components of the bike that were only in the research stage have either been designed or manufactured. We had a lot more members this semester which has allowed the electrical teams to make significant progress and has allowed some sub teams to start looking forward to testing and research for the next iterations of the bike. We have also gotten more sponsorships, allowing us to order more parts and not stall our progress. We are on track to be able to race against other college electric motorcycle teams this summer as well as conduct extensive testing beforehand.

12. Did your project have any changes to its team that SSC should know about (e.g., project lead, faculty/staff advisor, departmental financial contact)? *

NOTE: If yes, please complete the SSC Project Contact Information Change Form located at this link: <https://forms.office.com/r/uBjx9nmNpG>

YES

NO

13. Complete and upload the semester financial documentation for your project. You should reflect all expenditures since your last semester project report. We strongly suggest that you also upload supporting financial documentation from Banner for your award CFOP. NOTE: When your project is completed and/or expired (whichever comes first), any remaining project funds will be transferred back to the SSC.

<https://studentengagement.illinois.edu/sites/default/files/2024-09/SSC-Budget-Timeline-SEMESTER-PROGRESS-REPORT-template.xlsx>

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 [SSC-Budget-Timeline-SEMESTER-PROGRESS-REPORT- Kaia Kelley.xlsx](https://studentengagement.illinois.edu/sites/default/files/2024-09/SSC-Budget-Timeline-SEMESTER-PROGRESS-REPORT-template.xlsx)

14. (OPTIONAL FOR SEMESTER REPORT) Upload project marketing and/or media not previously submitted in semester progress reports.

NOTE: Project marketing and/or media must include SSC's logo and/or a statement of which fee(s) funded the project.