

Executive summary of the project

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The design problem:

The problem that our design had to combat was the inconvenience of college students in campuses. Students face major troubles when going to campus, troubles that regard safety for example. Students walking at night are not visible to drivers, and therefore accidents happen. The second major problem students face on campuses is the cold weather in winter which can hinder the students' performance.

Our team's approach and solution:

Our team had to create a wearable that had to give optical feedback to the wearer while also solving the problem described before. In the beginning phase of the development (fall term), our team met on a weekly basis to discuss the different ways we can approach the project and also research these different ways. We decided that we need a heating element in our wearable and had one team member responsible for that block as a whole. The heating element had to also give optical feedback to the wearer in the form of light LEDs. As for the safety problem at night our team decided to make a safety light that turns on automatically at night to provide safety for the wearer. The design was originally a sweatshirt, but then our team lost a member so we made a revision, and the wearable is now a back belt. The project is now complete and a recommendation our team would give is making the wearable a sweatshirt and not a back belt since it is more appealing to college students.

Key lessons we have learnt as a team:

The main lesson we have learnt as a team is to not let the workload overwhelm you and also to not get behind when it comes to what you need to accomplish. Weekly meetings are crucial to combat the two issues so having mandatory weekly meetings would have been a perfect solution to this problem. When working with a team in this project we made full use of the lab spaces as they made working on our project easier.

Project timeline:

The following image is the project timeline for out team:

