**Term information**

Our team will build an intelligent event detection system. This system will consist of cameras deployed in a bus which monitor passenger activity, and a web application which passes the camera feed to a machine learning algorithm to classify potentially hazardous events and notify monitoring personnel.

**Tentative Project Plan**

Last Updated: 1/13/19

Sprint 1: 1/7/2019 - 1/16/2019

* Project Plan
* Requirements
* Tool Chain Setup
* Project Scope Capture

Sprint 2: 1/16/2019 - 1/23/2019

* Basic Diagrams
* User Stories / Detailed Use Cases
* Cloud hosted server setup and configuration
* Camera system research / design

Sprint 3: 1/23/2019 - 2/11/2019

* Web UI skeleton and basic functionality
* Camera system deployment & initial data collection
* Device Registration implemented

Sprint 4: 2/11/2019- 2/25/2019

* Label / identify events in data for training
* Start manual training of the algorithm
* Add monitoring statistics to Web UI

Sprint 5: 2/25/2019 - 3/11/2019

* Continue collecting data and refining the algorithm
* Start testing the algorithm against a subset of labeled data
* Web UI Improvements

Sprint 6: 3/11/2019 - 3/25/2019

* Continue collecting data and refining the algorithm
* Web UI Improvements
* Start testing on unlabeled data and review post flagging

Sprint 7: 3/25/2019 - 4/9/2019

* Continued Testing and debugging
* Dry Run - full autonomous detection

Sprint 8: 4/9/2019 - 4/24/2019

* Continued Testing and debugging
* Final Competition