Technical Journal

Week 09/05/21

The first week was primarily focused on group formation and planning. We as a team setup communication and bounced ideas amongst each other for a final project proposal. This included determining what was feasible for our collective skillsets. Individual introductions took place to share experiences and get a background for the project.

1. Meet and great
2. Communication setup (Microsoft teams/ for chat and file share)
3. Schedule weekly meeting
4. Project options and discussion

Week 09/12/21

The 2nd week after group formation marked the project decision and project proposal. We discussed our project idea amongst our professor for approval and looked at any contingencies. Amongst this discussion we ran into another group full of CS planning to do the software and app side of the project. The professor and project sponsor approved of a group of 9 working together to accomplish this goal.

1. Project decision
2. Project approval
3. Larger group formation
4. Resource (innovation campus Coach)

We decided to do the smart park system. This will indicate what stalls are occupied or vacant across college campus. It will also notify students and faculty what parking lots are completely full. This will save a lot of time and increase college campus traffic, efficiency, and convenience. We believe this is marketable across university campuses as parking is commonly a challenge. Increasing campus accessibility will also increase student enrollment and retention. We’ve decided to use 2 types of sensors to mitigate 1 point of failure. Further research is needed to decide what sensors to utilize. As of now we believe an inductive loop will be 1 of the 2 sensors.

Components

1. 2 types of sensors (infrared and inductive loop)
2. Power (hard wired/ battery/ solar)
3. Aduino or Rasberry pi