Team Name: sddec20-09
Team Members: Abdelaziz Hassan, Chinar Kaul, Jared Hermon, Alyssa Marshall, Jared Hermon, Ben Pierre
Report Period: Feb 15-Feb 28

Summary of Progress in this Period

We met with previous project members, learned about their implementation, as well as got advice on how to proceed with the project. After this we explored a large variety of options to manipulate wifi packets CSI data, and landed on the idea of potentially adding a hall effects sensor. During this period we spent a good amount of time completing design documents with changing requirements, as well as required documents for the 491 class. We also added more detail to our functional and non-functional goals for the project.

Pending Issues

We are exploring CSI vs RF harvesting, there is a large difference between what the client wants and what the students wanted to do when they signed on. Additionally should we opt to use CSI as the client wishes, there is strong research suggesting that we need multiple access points and multiple receivers, which is mildly intimidating.

Plans for Upcoming Reporting Period

We need to come to a decision between a hall effects sensor and a CSI setup for data manipulation. Once this is done we should begin deploying the previous groups design so we can understand it, and from there we can work to improve it. Once the circuit is established we should integrate our hall effects sensor into it in the hopes of improved detection.