

# EE/CprE/SE/CYBE 491 WEEKLY REPORT 02

2/7/2022 - 2/13/2022

Group: 07

Project: Wireless Energy Harvesting

Client: Dr. Jiming Song

Team: Ben Brown, Christopher Marting, Greg Schmitt, Jacob Walczak, Sam Runkel, Tanner Garity

## Weekly Summary:

Met with each other in a group meeting for about an hour and a half. We discussed areas we needed to research to get a better understanding of the project. Everyone individually researched on their own time about Antennas (Dipole). Additionally, we created a basic system level diagram of the project as shown in figure 1. Lastly, everyone in the group met for about 2 hours to discuss team roles and expectations for the project. For our "Business and Technology Methodology we have chosen technological benchmarking (position map). We chose this methodology because we feel it will best fit our needs based on our understanding of our project up to this point.

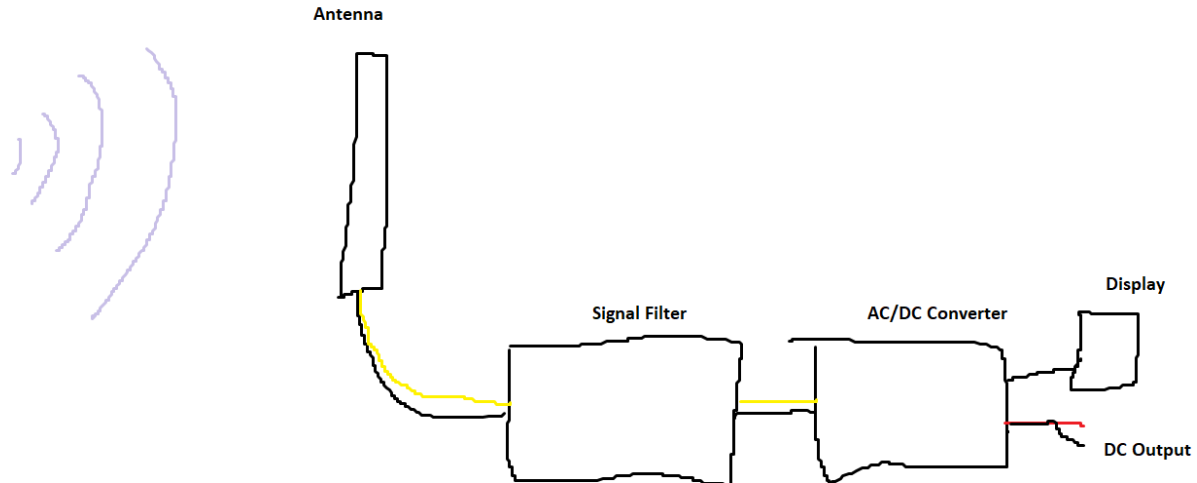


Figure 1: Basic system level diagram of the project

## Plans for upcoming week:

- 1) Further our research and understanding of wireless energy harvesting.
- 2) Try to come up with what type of antenna we will be using to capture 2.5 GHz wifi signals.
- 3) Contact Dr. Song about acquiring an energy harvesting test board.

Individual contributions:

Name	Individual Contributions	Hours this week	Hours cumulative
Benjamin Brown	<ul style="list-style-type: none"> <li>● Miro Board Teamthink Constellation - 0.5</li> <li>● Additional research on antennas(Dipole) - 0.5</li> <li>● Discussing team roles and expectations - 2</li> </ul>	3	7
Jacob Walczak	<ul style="list-style-type: none"> <li>● Miro Board Teamthink Constellation - .5 hrs</li> <li>● Discussing Roles for the Team Initiation Contract - 2 hrs</li> <li>● Dipole Antenna Research - .5 hrs</li> </ul>	3	6
Greg Schmitt	<ul style="list-style-type: none"> <li>● Teamthink Constellation - 0.5 hrs</li> <li>● Team Initiation - 2 hrs</li> <li>● Dipole Antenna Research - .5 hrs</li> </ul>	3	6
Christopher Marting	<ul style="list-style-type: none"> <li>● Miro Board Teamthink Constellation - .5 hrs</li> <li>● Team Initiation - 2 hrs</li> <li>● Dipole Antenna Research - .5 hrs</li> </ul>	3	6.5
Sam Runkel	<ul style="list-style-type: none"> <li>● Miro Board Think Constellation - 0.5</li> <li>● Team Contract Discussion - 2</li> <li>● Individual antenna research - 0.5</li> </ul>	3	6
Tanner Garity	<ul style="list-style-type: none"> <li>● Miro Board Think Constellation - 0.75 hrs</li> <li>● Team Contract Discussion - 1 hrs</li> <li>● Individual antenna research - 1 hrs.</li> </ul>	2.75	7