

Team sddec20-06
EE 491
2 February 2020
Batteryless, Encapsulated Hydrometer

Bi-weekly Status Report #1 [B1]

Individual Contributions:

Name	Contributions to the team	Hours Worked for the Week	Total Cumulative Hours
Tilden Chen	Communications Research	6	6
Josh Hall	Microcontroller/Embedded Research	6	6
Jensen Mayes		6	6
Chris McGrory	Microcontroller/Embedded Research	6	6
Griffin Orr	Antenna Research	6	6
Chris Pedersen	Microcontroller/Embedded Research	6.5	6.5

Summary:

In the first two weeks of development, we primarily planned out our project and researched different aspects of the project. We are currently working with our client to compose a reasonable set of milestones and accompanying dates. Each person has been assigned to a certain task and are currently researching their task. Griffin Orr and Tilden Chen are tasked with hardware development and are researching antenna design, wireless communication protocol, and PCB layout. Josh Hall, Chris Pedersen, and Chris McGrory are tasked with the embedded software development and are researching the microcontroller that will be utilized as well as defining memory and power needs. Jensen Mayes is tasked with developing the computer interface with the hydrometer as well as developing the mechanical enclosure for the PCB. Along with this, Jensen is researching the energy harvesting technology.

Pending Issues:

- No major pending issues. We do need to get lab access though for the senior design lab in preparation for testing hardware soon.

Future Plans:

Verify project definition with client based on outside group research.