EE/CprE/SE 491 BI-WEEKLY REPORT 3

2/17/20 - 3/1/20

Group number: 18

Project title: Magic Door Sensors

Client &/Advisor: Daji Qiao

Team Members/Role:

Mitchell Bratina/ Project Plans Engineer

Calvin Christensen/ Engineering Activities Director

Isaiah Exley-Schuman/ Reports and Documentation Management

Collin Kauth-Fisher/ Conflict Resolution and Server Management

Joseph Kueny/ Meeting Facilitator

Summary: After meeting with Daji, we refined our requirements and goals for the project and have a parts list ready to order for initial testing. We have placed the order for these parts, and we expect them soon. In the meantime, we are looking into CSI as a possible means of determining if a door is opened.

Past week accomplishments: The design document was drafted after much debate about requirements, and the project needs were further discussed to open the possibility of implementing CSI alongside our active sensor.

Pending issues: Performance testing of initial components is dependent upon component delivery, there are no blocked issues otherwise.

Name	Contributions	Hours this period	Hours cumulative
Mitchell Bratina	Contributed to design	12	36
	document		
Calvin Christensen	Researched RF harvesting and	12	36
	power		
	expectations/requirements		
Isaiah Exley-	Prepared submission	12	36
Schuman	materials, including B3 and		
	design doc.		
Collin Kauth-	Updated team webpage with	12	36
Fisher	details and reports.		
	Continued work on the		
	backend, building up API		
	paths and doing design and		
	frameworking for future		
	implementation.		

Individual contributions:

Joseph Kueny Worked on design doc.	12	36	
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Comments and extended discussion: N/A

Plans for the upcoming weeks: Parts will come in and team members will begin testing, and everyone will do their part to research CSI implementation strategies. We will also be sourcing a transmitter circuit, further fleshing out the design doc, and preparing for our next lightning talk.

Summary of weekly advisor meeting: We met with Daji who showed us into the lab where other students are working on wireless power applications and discussed implementing CSI.