Team Name: Team GoGetter

Date of Submission: October 24, 2021

Meeting Date & Time: October 23, 2021, at 9:00 PM

Meeting Location: Zoom

Meeting Duration: 2 hours

Team Members	X = Present	Notes
Khanh Le	X	
Phuong Nguyen	X	
Abdullah Alhoulan	X	
Mutlaq Alotaibi	X	
Marshall Aurell	X	

Progress: Discussed and delegated workload for the upcoming weeks. We shift the focus to prototyping and testing in the upcoming weeks. As of now, there are 3 things we need to get done before the semester ends: Testing the software, creating a prototype, and making an enclosure box. The code testing had some problems that needed to be fixed. The strain gauge connection needs a frame for maximum sturdiness, possibly a 3D printed frame.

Individual contributions:

Khanh: Test the strain gauge connection and code. The strain gauge needs to be calibrated before it can be use in this project. I did the research for all possible standard that the product has to meet

Phuong: Contribution to the group project for this week meeting as a hardware design specification for all components and their hardware data specifications. I was making a table and listed all components used for this project with their specs.

Marshall: Group project. Testing IR sensor and research with GSM SMS messaging.

Mutlaq: This week's meeting, we met by zoom and discussed sensor testing and work on project technical. I am doing research about product cost in the market.

<u>Abdullah:</u> Testing Sensor and I did engineering standards. We checked GSM SMS messaging.

Team Member	Assignment	Due Date	% Complete/Progress
Mutlaq	Power consumption / supply	Nov	Need a voltage regulator for safety measure
Khanh	3D printer for module/ CAD designs	Nov	Done: _Found the Arduino 3D model _Have basic dimension + draft of the enclosure _Learn the process of the 3D printer (need .stl file for the one in the library) Need to be done by the due date: _Need the model for strain gauge _Need to find or design a 3D model of: Arduino Nano, Battery board.
Marshall	Logic/software for the sensor system	Nov	Need to test the current logic
Abdullah	IR sensor datasheet	10/17	100%
Phuong	Weight sensor datasheet	10/17	100%
Abdullah, Phuong	Test the sensor		
Team	SMS messaging method		Need to order the SIM card
Team	New transceiver logic	Nov	Need to find library and code for a sensor network
Team	Project Specification Paper	10/24	

Cost:

ID	Price	Manufacturer	Manufacturer Product Number	Link
Load Cell	$11.19	Degraw Design	4 x Load cell 0-50KG 1 x HX711 24BIT Precision ADC Module on breakout board 10 x Breakaway header pins for HX711 connection	https://www.amazon.com/Degraw-Amplifier-Weight-Arduino-Bathroom/dp/B075Y5R7T7/ref=sr_1_8?dchild=1&keywords=load+cell+arduino+

				150k&qid= 163195839 4&sr=8-8
Arduino Board with Wifi	$44.80	Arduino	Code: ABX00021 / Barcode: 7630049200234	https://sto re-usa.ard uino.cc/pr oducts/ard uino-uno- wifi-rev2
Motion Sensor				JBC 106
Amplifiers				JBC 106
Transceiver		RF24		
Arduino Nano				

Plan (future work):

Assignment	Due Date
Test the logic	Codes for IR sensor need rework and codes for strain gauge (calibrate and logic) need to be tested
Test the wifi webpage	Connection is done, focus on the webpage
Create the first prototype	TBD
Test the prototype	TBD

Issues: Test the software of the project and fix the code problems. Need to order the parts

Include the schedule for the next meeting:

Meeting Date & Time: TBD

Meeting Location: JBC 106