
Team Name: Team GoGetter

Date of Submission: November 14, 2021

Meeting Date & Time: November 14, 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: We were able to test some of the components on 11/13. The IR sensor's code needs to get recalibrated (it works sometimes, needs it to work at least 90% of the time). The strain gauge needs to be soldered and calibrated for testing. The 3D model is done, it needs to be printed. About power, the project's power consumption is quite high, most 9V batteries won't last very long. Mutlaq needs to start on a testing fixture/document.

Abdullah: We met on Zoom for 2 hours, and discussed a lot of things. The most important was the distribution of tasks to the actual experience in our project. My job is to work on the IR (the sensor) in all respects and test it.

Mutlaq: We worked on our project and we built it and connected the weight sensors and Arduino after we uploaded the code on it. Then we calibrated but it didn't work. We plan to fix the code again and do the test again.

Phuong: I will be responsible for testing and calibrating the strain gauge. Still working on it, I will update the progress on Tuesday.

Khanh: Currently done with modeling and will need to test on printing the enclosure. I will update all the documents about the project's technicality.

Marshall: Currently still working on the code responsible for connecting two Arduinos together over WIFI. Thinking client and server network model for connecting the two Arduinos together instead of peer-to-peer.

Strain Ga. (Phuong)	IR (Abdul)	Build (Khanh)	Test (Mutlaq)	WiFi (Marshall)	Integration
Calibrate	Prox. Sensor	3D model	Give parameters of the project	Setup	Make the story work
Weight-Value (The breakdown weight it can handle)	Daylight/Night	Hooking everything up	Environmental Factors (different lighting, door frames, bed weights)	Protocol	Keypad/finger sensor
Test	LED/Fluorescent	Battery(Arduino, Sensors)		peer to peer	TA at Nov/20
Zeroize	code into arduino	Enclosure		dhcp	
Code into Arduino					
arduino uno with HTTPS	arduino uno with HTTP				

Components:

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 #2	\$44.80	Arduino	Code: ABX00021 / Barcode: 7630049200234	https://store-usa.arduino.cc/products/arduino-uno-wifi-rev2
Motion Sensor	\$			JBC 106
Amplifiers				JBC 106

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/ model	11/21
Test the prototype	11/21

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: TBD