

Schematic Diagram and Equipment Description

CSE - 306

Group - 13

Project - SenseGuardian

A Wearable Stress, Sound, and Safety Monitor for Children with Autism

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SenseGuardian Equipment List

MODEL	QUANTITY	COST
6DF Accelerometer Gyroscope GY-521 MPU-6050	1	250
ESP32 Dev Board CH340 USB-C	1	675
Female to Female Jumper Wires 40 Pin 30cm	1	140
JST XH 2.54 2pin Female Connector 30cm	1	20
Lithium Ion Battery - 1000mAh 3.7V	1	510
Male Pin Header 2.54mm Pitch-Red	1	15
MAX30102 Heart Rate and Pulse Oximeter Sensor Module	1	378
Sound Sensor Module for Arduino	1	73
TP4056 1A Li-ion battery charging Module with Current Protection-type c	1	40
U-Blox NEO-6M GPS Module	1	440



