Timeline

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Automatic Ambulance Signalling System
Group 9_Engineering Design II

Headstart

Hold meeting with 3rd yearites ,members of robotics club.

Most probably this coming weekend.

And discuss about practical implementation of our project.

After the meetings we will start collecting necessary components.

Onward weeks we will start to make the prototype.

Basic Simulation

Simulide : https://www.simulide.com/p/home.html

SimulIDE is a simple real time electronic circuit simulator, intended to learn and experiment with simple electronic circuits and microcontrollers, supporting PIC, AVR and Arduino.

Helpful in making circuit diagrams without actual components

Minimum 2 weeks required to learn arduino coding and implementation.

Finalizing the components and collection

Collection of basic components to start working upon. Creating a basic model

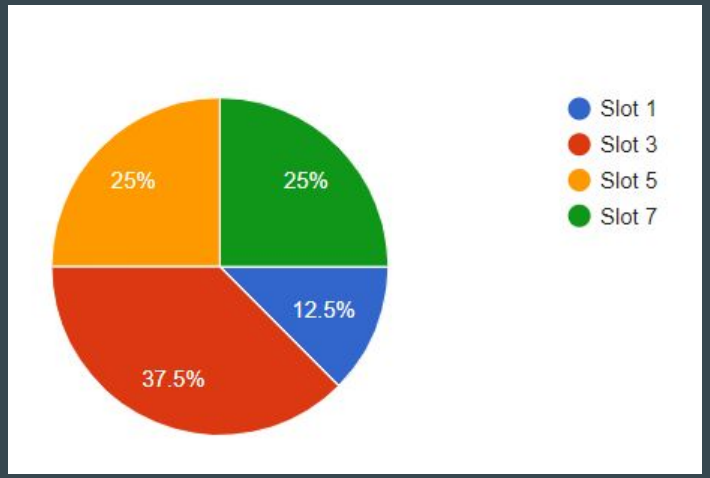
Slot 1 which is leaving on 4th of september will majorly work upon software and simulation part. Slot 3 will work on collecting components and their basic arrangement . Slot 5 and slot 7 will work finalizing the model.

Minutes of Meeting

- Use an effective test object.
- Design a basic test system which can send an sms to your mobile as soon as it detects a crash.
- Decide a threshold for crash test sensors by hit and trial method (can be further changed based on practical design).
- Mitul and one other team member will be handling the coding part of arduino controller.
- Mainly we will use only arduino board, accelerometer, gsm module.
- For making the case of accident, we have however thought that we will do it via the clash of some object.(since we want to know only whether there is clash or not).

Slot distribution

- Since most students are in slot 3 (ends 3rd Oct) we are expecting to complete at least the first test of design a decide a threshold for our sensors by the end of slot 3.
- From slot 5 (starts 3rd Oct) onwards we will be improvising on the initial design.



Budget

Arduino Mega 2560 R3--1150

Gsm module SIM900A----1200

gps 6mv2---805 (available)

ADXL335 Triple Axis Linear Accelerometer----600

Graphic LCD 84 X 48 Nokia5110----160

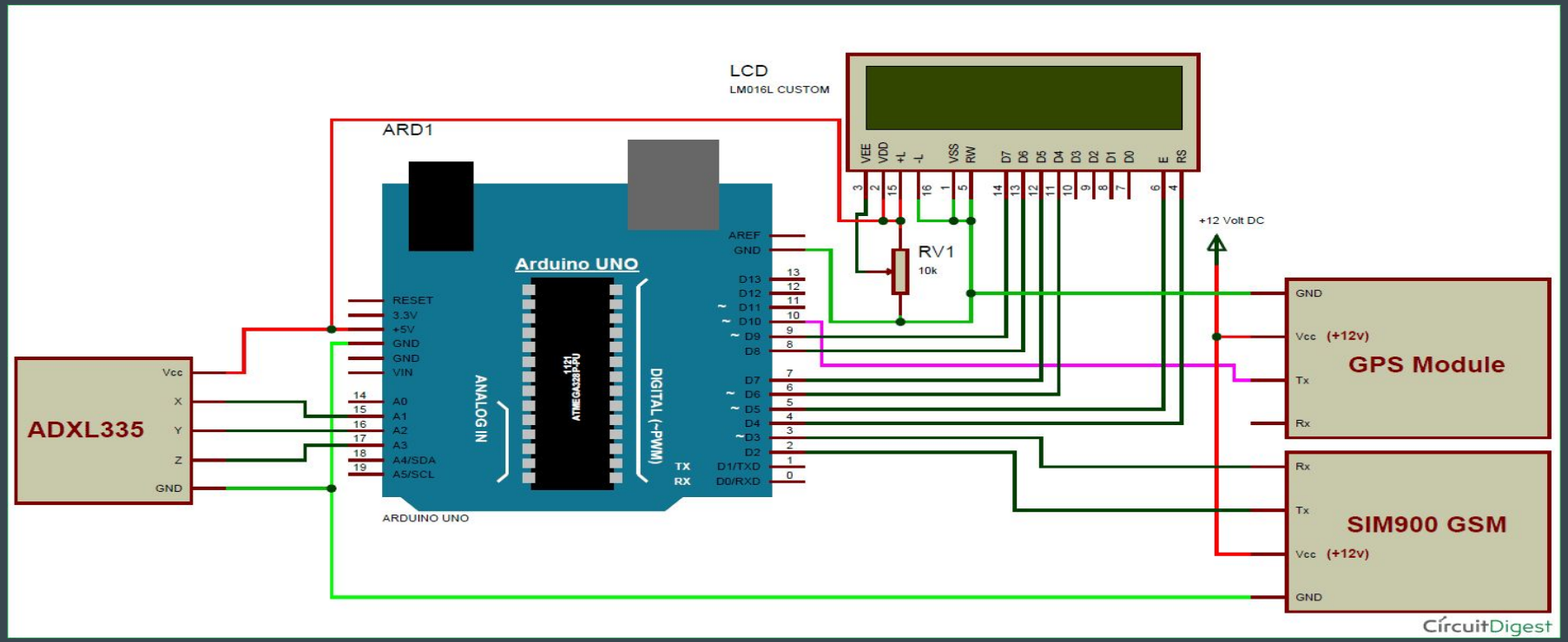
Breadboard---90

10 K-POT---125

Connecting Wires----70

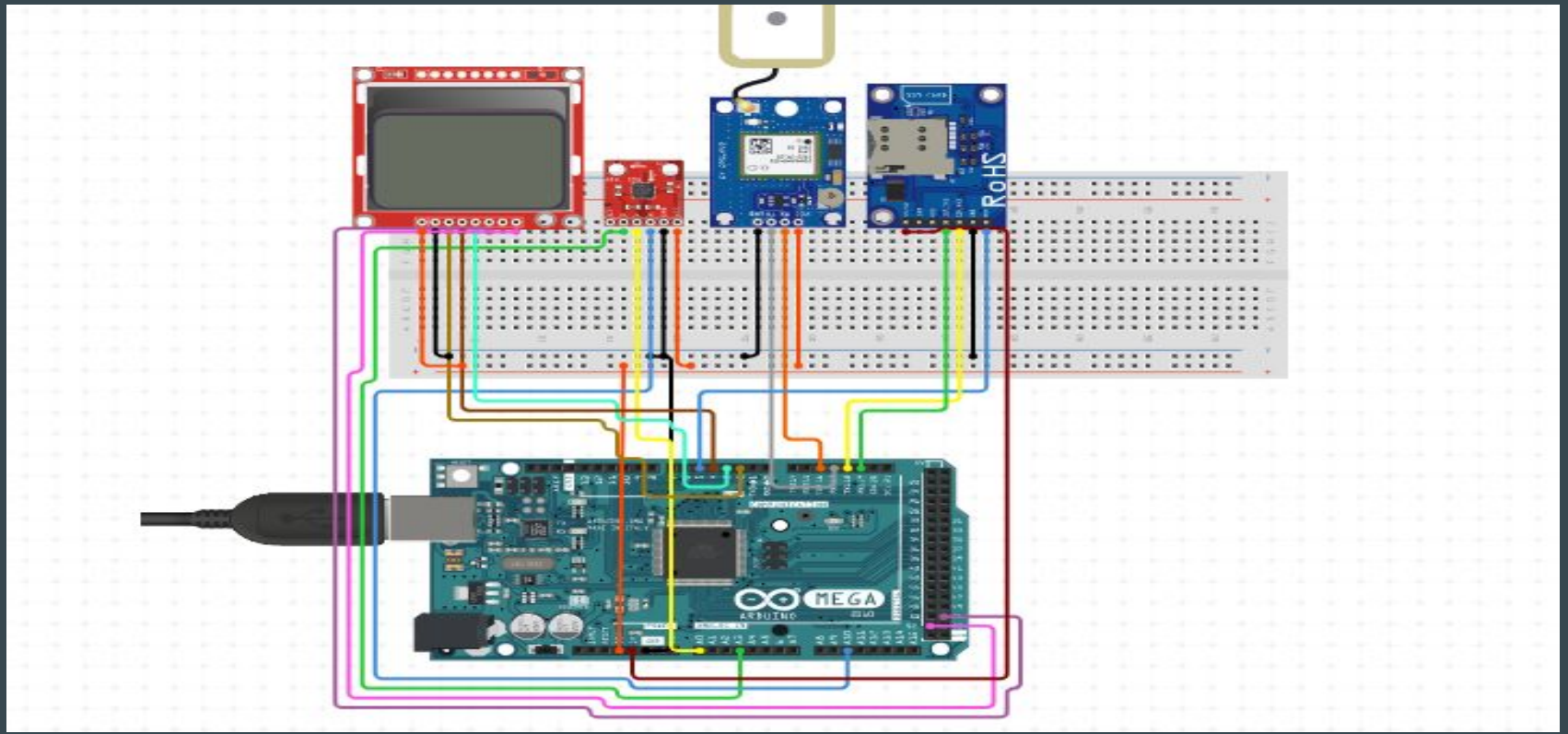
= Rs. 4200

Final Circuit Diagram (eliminating all other components)



Major work of Slot 3 peoples

- To use the simulator at first to check the working of the circuit and predicting how accurate is it.
- Once we reach the result of this simulation then the original setup can be made easily.
- The coding part has been started to prepare.


MEGA
ARDUINO
RoHS