

Project Title – ARAR

Introduction- We are creating an autonomous robot with the help of various sensors. The aim of this project is to design an autonomous robot with the help of the sensors including-Temperature Sensor, Line Finder, IR Distance Interrupter, Moisture Sensor, Webcam, Mobile App, Voice Control that will integrate with the Intel Edison board.

Its purpose is to help people at home such as- assisting people in their house chores, monitoring of babies at home by live streaming with the help of webcam.

It can also be used in industries autonomously in carrying out specific tasks.

It can also be used in farm to help the farmers to find out the presence of water, moisture level, temperature of soil and air.

Step 1-Getting started.

Step 2-Building the robot.

Step 3-IoT (Internet of Things).

Step 4-Starting with the sensors.

Step 5-Programming the DC motors along with other sensors.

Step 6-Testing the Robot.

ARER (AUTONOMOUS ROAMING EDISON ROBOT)

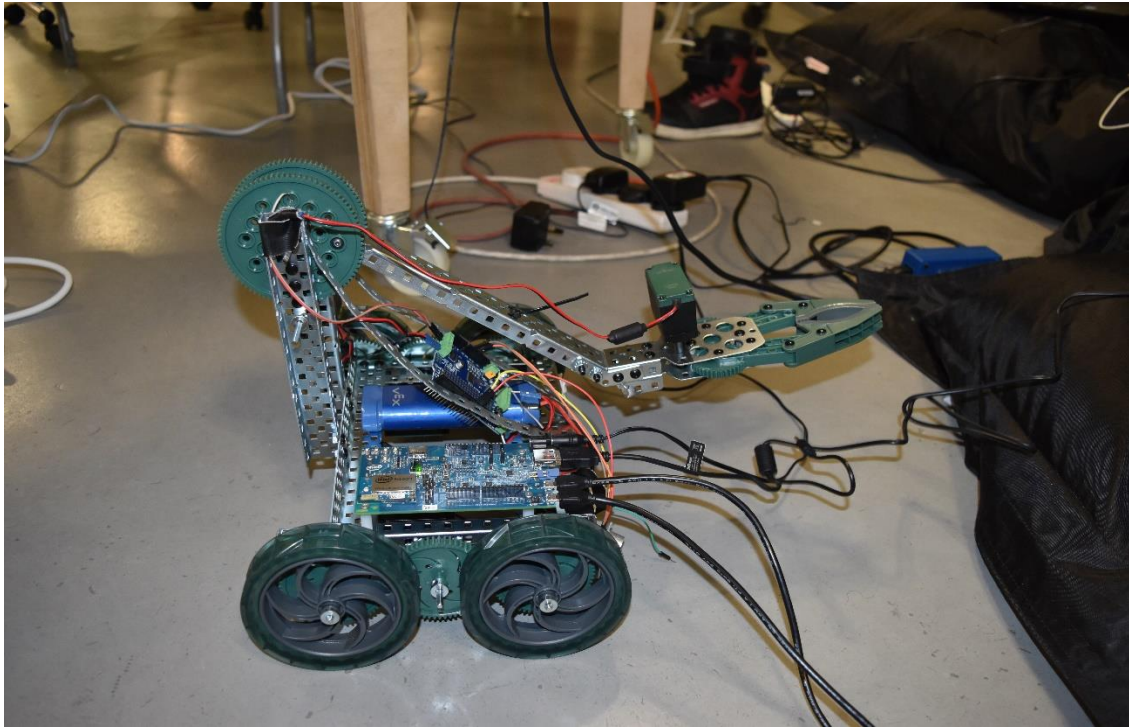
The problem:

The aim of this project is to create an autonomous robot for good causes with range of sensors that is integrated with Intel Edison Board. We are creating this to help people in various ways and to make life easier.

One of the Global problem that the world is facing is to feed population. They need to use technology which can help farmer to produce more, help developing countries more than families.

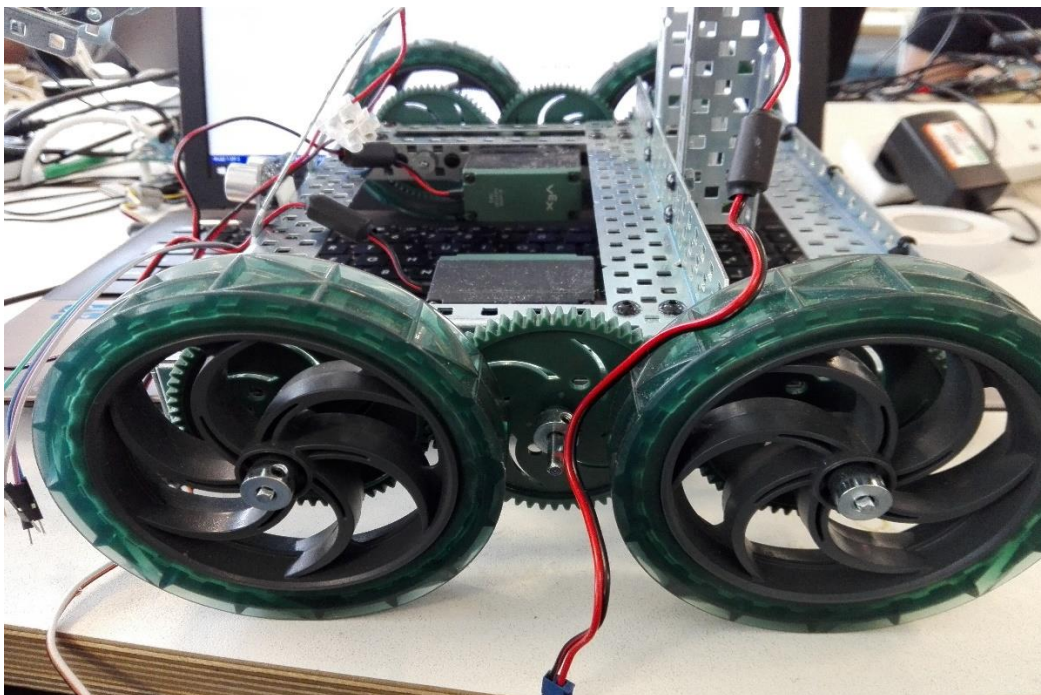
Climate change is a big problem that is challenging human being how can technology can help improve standard of living to help farmer to be more productive to be able to forecast the weather, thunder storm, wild fire which happened for almost three 3 weeks recently in Canada. Things like that can be prevented, if we can deploy fire resistance robot that will able to prevent such disaster.

Step 1-Getting started

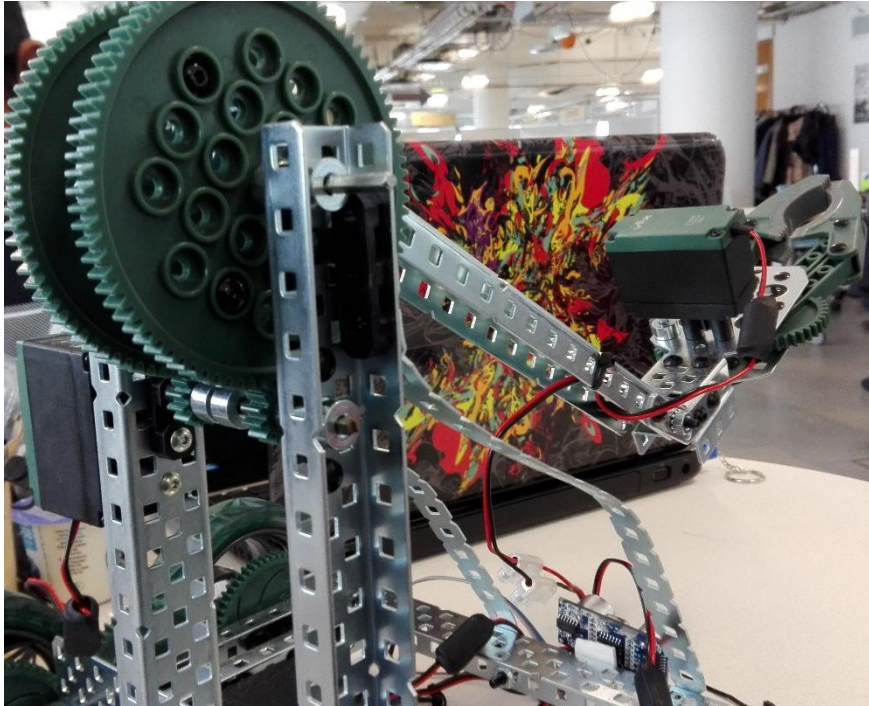


Step2-Building the Robot

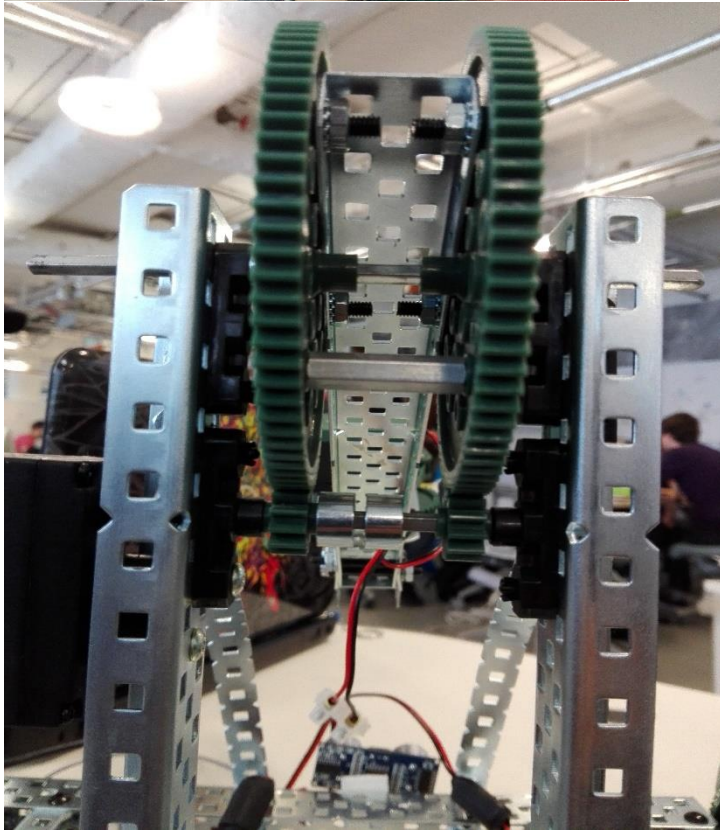
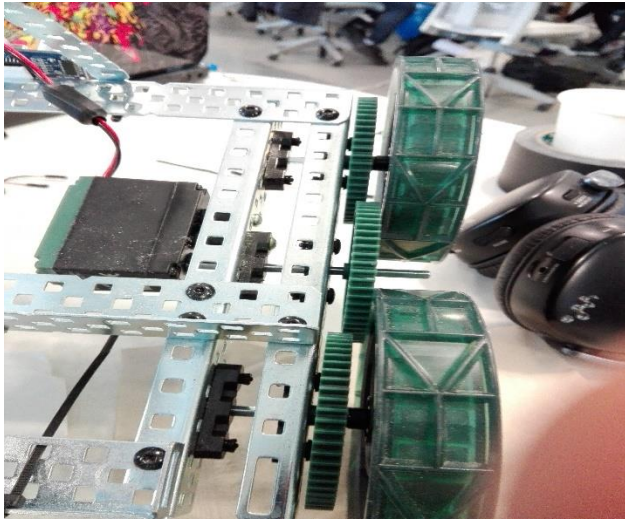
Base-



Claw-



Putting up the gears-



Step 3- IoT

Internet of things means different devices are connected together for the benefit of collecting data, sharing data, and analysing data for business medical social and geographical purposes. It is a modern way of doing things at world-wide level. It includes smart cities, cars, trains, smart wearable devices for the benefit of mankind.



Step 4-

Line finder- used to follow the path in a particular line for the robot.

Temperature sensor- used to detect the temperature or predict the future weather.