Course Project

- **Mohamed mostafa**
  202000484
- **Nour Mohamed**
  202000119
- **Abdrahman hossam**
  202001458
- **Ahmed mostafa**
  202000896
- **Begad soliman**
  202000896

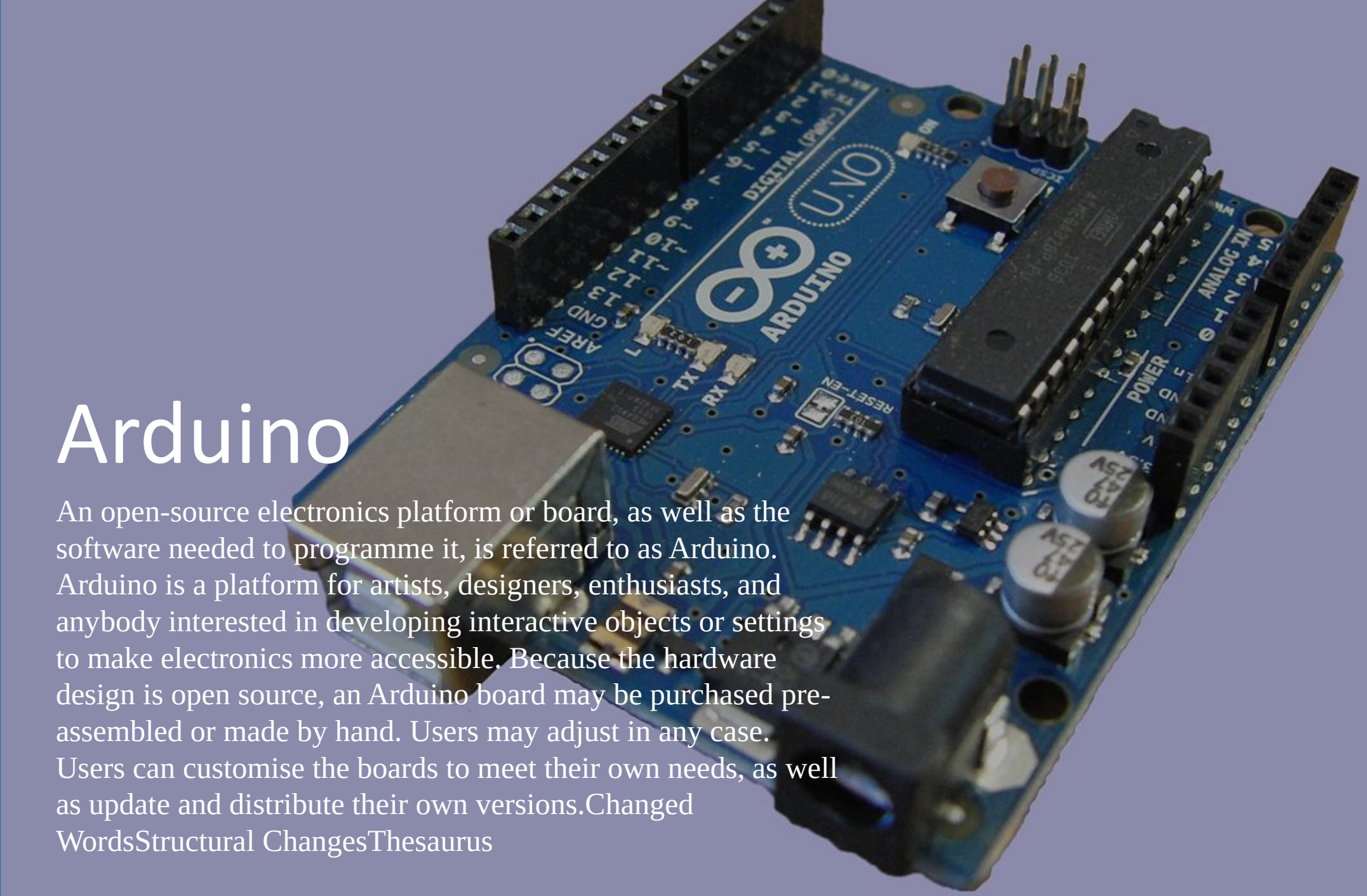
Problem Definition

To design a fire fighter robot we have written a code for this robot so that it can go to the place where the fire and put it out whith a fan.

- Main components

- ❑Arduino
- ❑Lithium battery
- ❑flame Sensor

Arduino



An open-source electronics platform or board, as well as the software needed to programme it, is referred to as Arduino. Arduino is a platform for artists, designers, enthusiasts, and anybody interested in developing interactive objects or settings to make electronics more accessible. Because the hardware design is open source, an Arduino board may be purchased pre-assembled or made by hand. Users may adjust in any case. Users can customise the boards to meet their own needs, as well as update and distribute their own versions.Changed WordsStructural ChangesThesaurus

Lithium Battery

A lithium-ion battery or Li-ion battery is a type of rechargeable battery. Lithium-ion batteries are commonly used for portable electronics and electric vehicles and are growing in popularity for military and aerospace applications. In the batteries, lithium ions move from the negative electrode through an electrolyte to the positive electrode during discharge, and back when charging.

flame Sensor

The flame sensor is a kind of detector, which is mainly designed to detect and respond to the occurrence of fire or flame. The flame detection response may depend on your settings. It includes alarm systems, natural gas pipelines, propane and fire extinguishing systems. This sensor is used in industrial boilers. Its main function is to verify whether the boiler is working properly. Compared to heat / smoke detectors, these sensors respond faster and are more accurate because they have a mechanism to detect flames.