

**CSE323**

**PROJECT PROPOSAL**

**On**

**Arduino Based 3-Way Traffic Light Controller**

SECTION: 07

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SUBMITTED BY:

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# **Description:**

A microcontroller is a computer present in a single integrated circuit which is dedicated to perform one task and execute one specific application.

It contains memory, programmable input/output peripherals as well a processor. Microcontrollers are mostly designed for embedded applications and are heavily used in automatically controlled electronic devices such as cellphones, cameras, microwave ovens, washing machines, etc.

In this project, we are using Arduino microcontroller. The main part of the Traffic Light Controller is the controller itself. Arduino UNO will serve the purpose in this project to handle all the switching of the LEDs and controlling their timings.

# **Components:**

1. 3\*Red LED Lights
2. 3\*Green LED Lights
3. 3\*Yellow LED Lights
4. 3\*220ohm Resistors
5. Breadboard
6. Male To Male Connectors
7. Arduino Uno With Ide Cable

# **Software used in this Project**

ARDUINO 1.8.9

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other open-source software.   
This software can be used with any Arduino board.