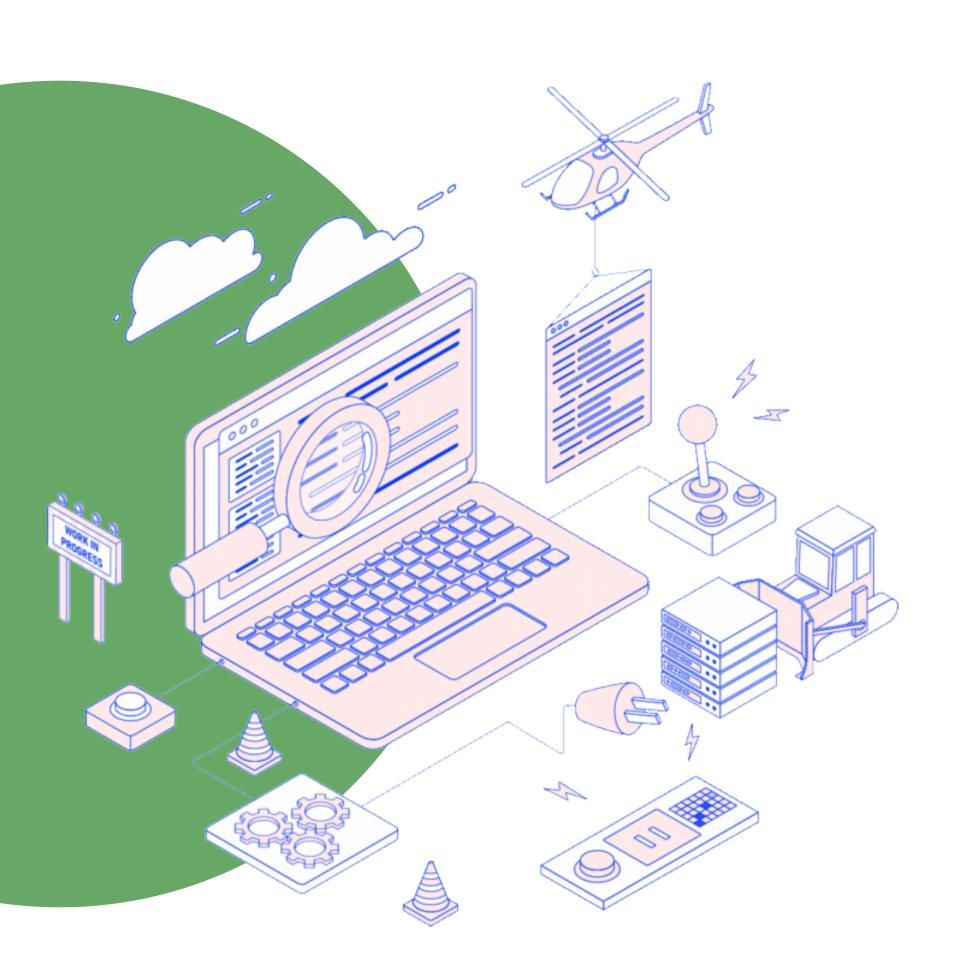


Embedded Line Land State Continue of English and State Continue of







Embedded System

A system is an arrangement in which all its unit assemble work together according to a set of rules.

And as the name suggests, Embedded means that these systems are usually an integral part of a larger system.

Embedded Systems are
Application-specific systems
which contain hardware and software
that are designed to perform a
dedicated and repeated function and
are generally part of a larger system.

What are Embedded Systems Applications?









GPS Receivers

Digital Cameras

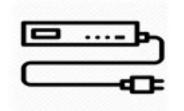
DVD Players



Embedded Systems











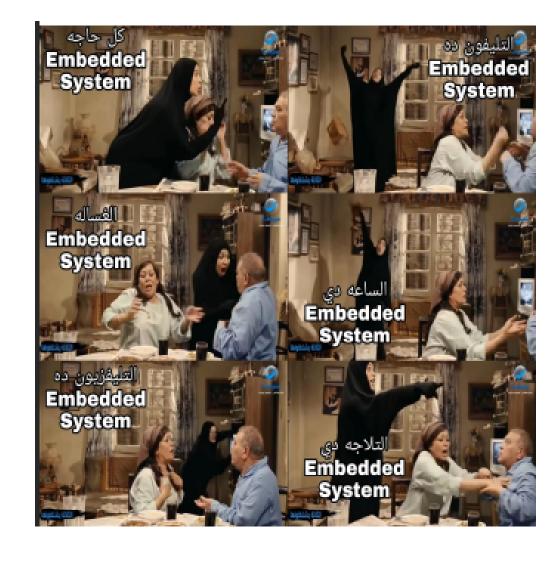


Set top Boxes

Gaming Consoles

Photocopiers

Microwave Ovens

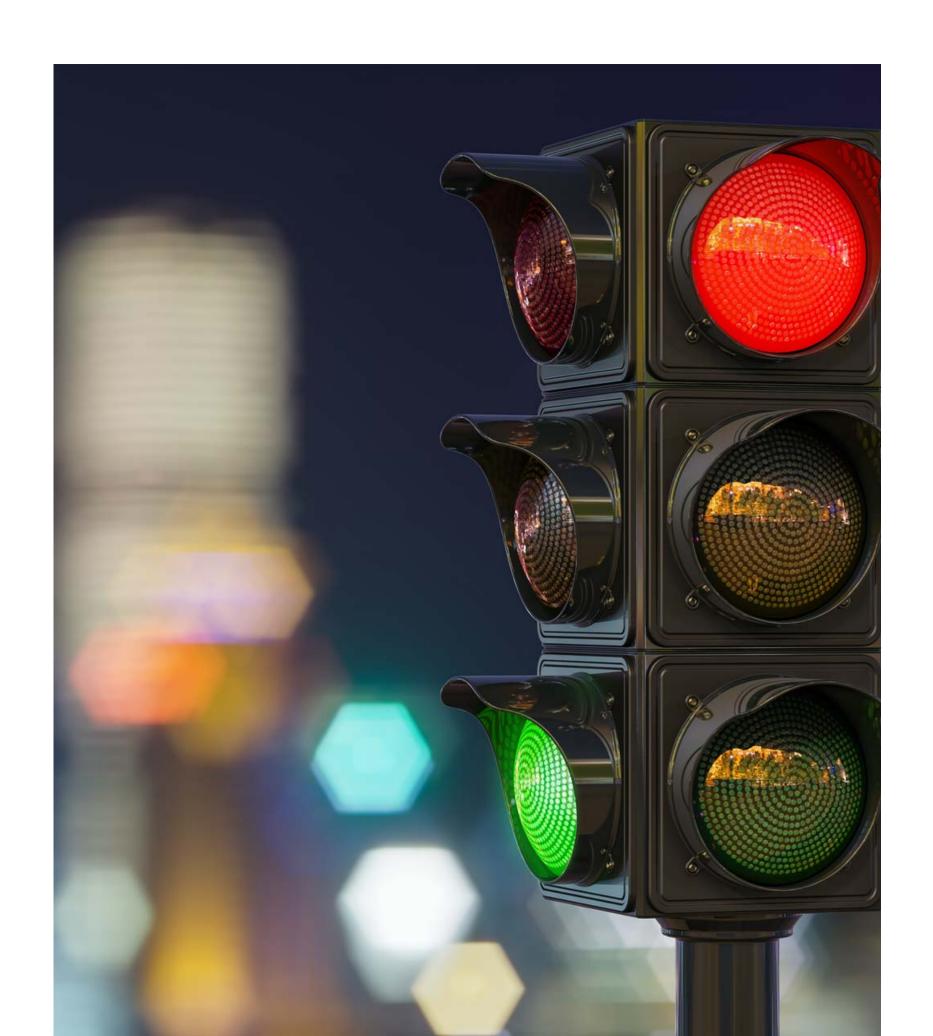


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Traffic Light

are signalling devices positioned at road intersections, pedestrain crossing, and other locations in order to control the flow of traffic.

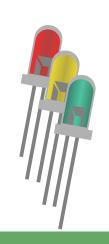
Traffic lights consist normally of three signals, transmitting meaningful information to drivers and riders through colours and symbols including arrows and bicycles



Zomposition:

- pic16F877A
- 7447 ic
- 7Segment-COM-ANOD
- capacitor, Resistors
- PNP Transistor
- Button
- LEDs







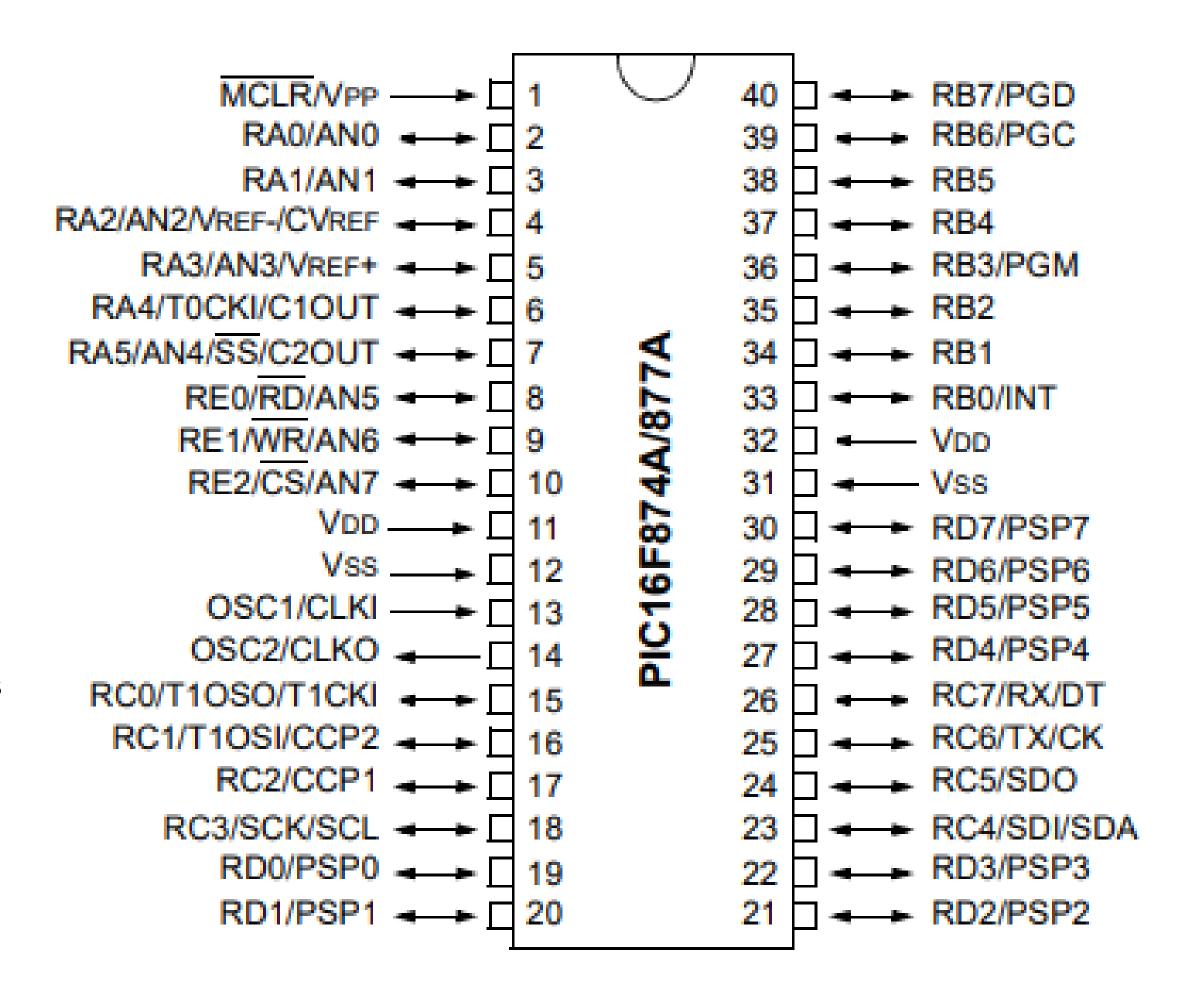


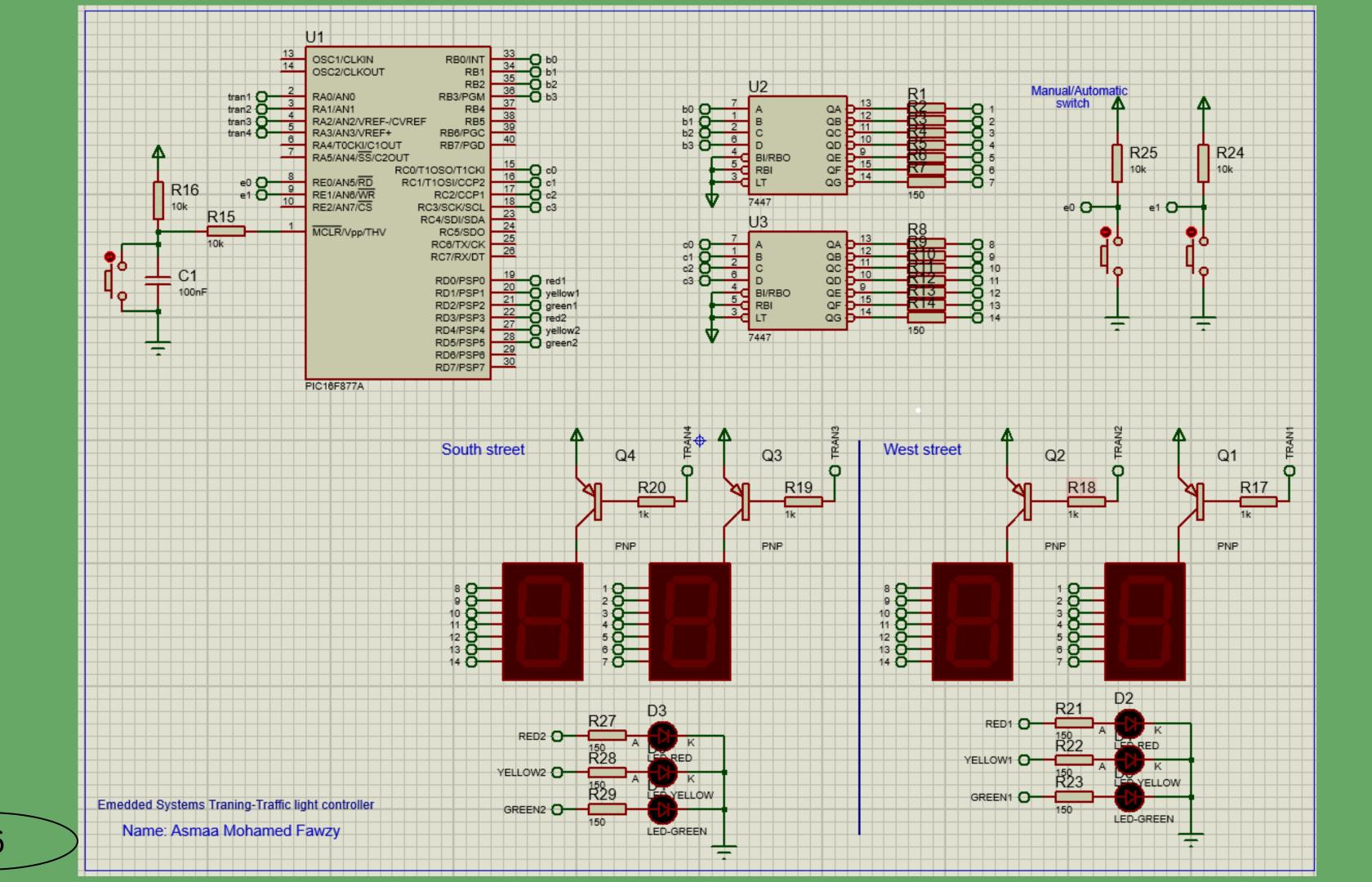


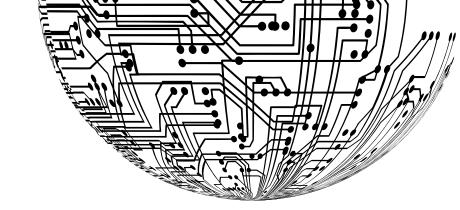
PIC16F877A

The PIC16F877A is arguably the most popular 8-bit microcontroller in the PIC family of MCUs.

- It is easy to use. The PIC16F877A has a simple instruction set that is easy to learn. There are also many resources available to help developers learn how to use the PIC16F877A, including books, tutorials, and online forums.
- It has a wide range of features. The PIC16F877A has a variety of features that make it suitable for a wide range of applications. These features include the ADC, the PWM modules, the synchronous serial port, and the USART.
- It is relatively inexpensive. The PIC16F877A is a cost-effective solution for many embedded systems applications.









Youtube Link



<u>GitHub</u>



Schematic



Code



