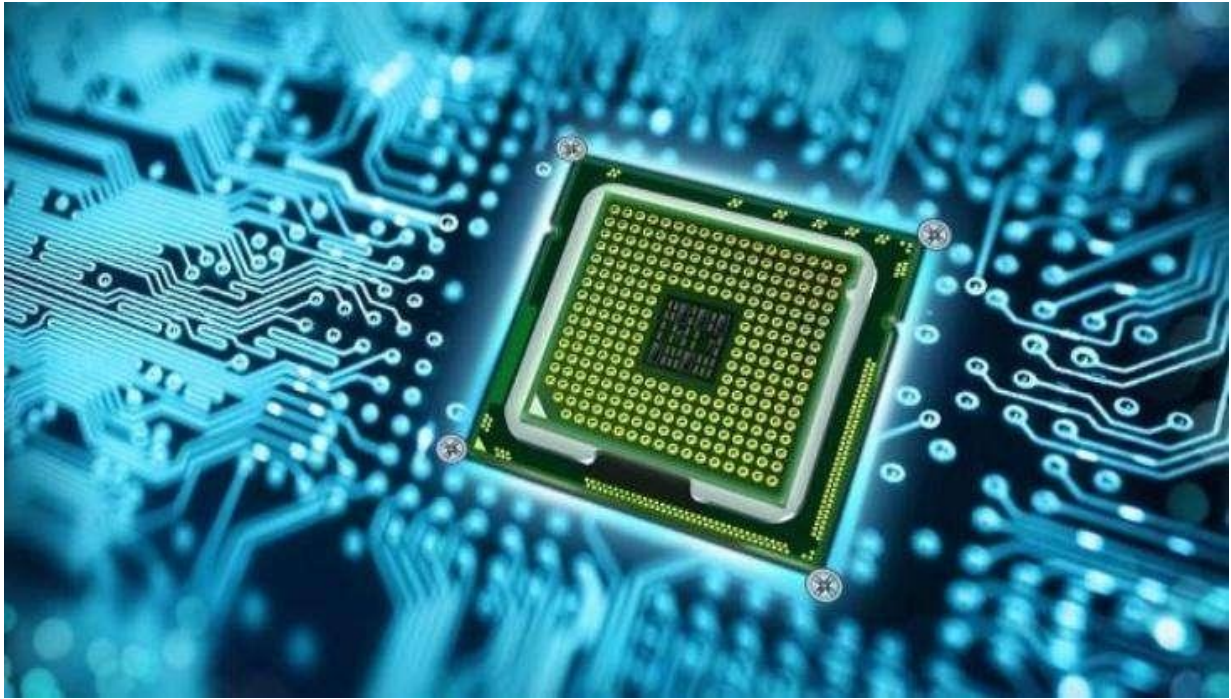# ÇUKUROVA UNIVERSITY

ELECTRIC AND ELECTRONIC ENGINEERING

INTRODUCTION TO EMBEDDED SYSTEMS DESIGN

(EEE495)

PROJECT REPORT

NAME: KEREM METİN

ID:2016514401

PROJECT: GATE OPENER

How does it work ?

When the system detects a substance through the sensors in the particular distance , the data is sent to the system . In this way the gate which we made with the servo motor opens . Opened gate closes if there is no entrance after one minute . It shows the countdown on the LCD screen ten second before , before shotdown.

If a substance is detected by the sensors before one minute is over , the time is zeroed and the one minute duration starts again . Buzzer and led is added to the project in order to stimulate the opening and closure.

Materials

MSP430G2553
HC-SR04
Buzzer
Servo motor
Led
2x16 LCD Screen
Breadboard
Jumper

CIRCUIT PICTURE