UNDERGROUND PARKING SYSTEM

INTRODUCTION

We need to find a parking space in busy cities

PROBLEM OF THE STATEMENT

- Cities are running out of parking spots.
- More cars mean more traffic and wasted time.
- Old parking systems can't keep up.

We need a new, efficient, and easy-to-use solution.

SOLUTION

- Uses a smart crane mechanism for parking.
- Transports cars underground for efficient space use.

OUR PROJECT

- UNDERGROUND PARKING SYSTEM

GOAL

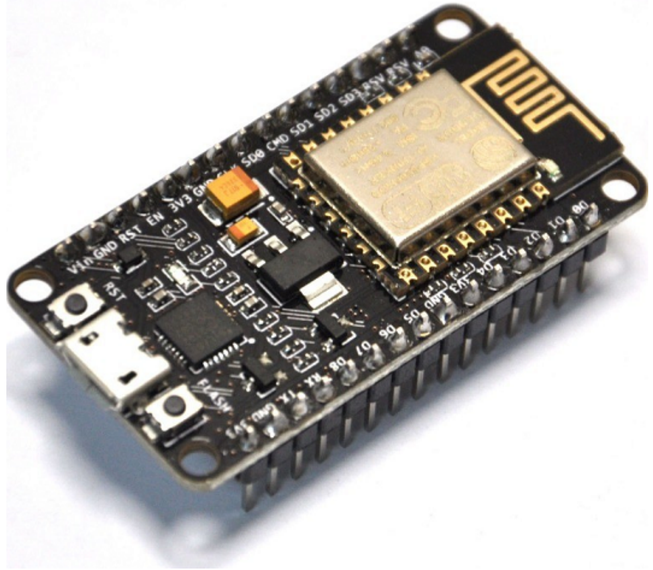
- Make parking easier and more efficient

BENEFITS

- *Space saving.*
- *Reduce the time wasted on searching for a parking space.*

COMPONENTS

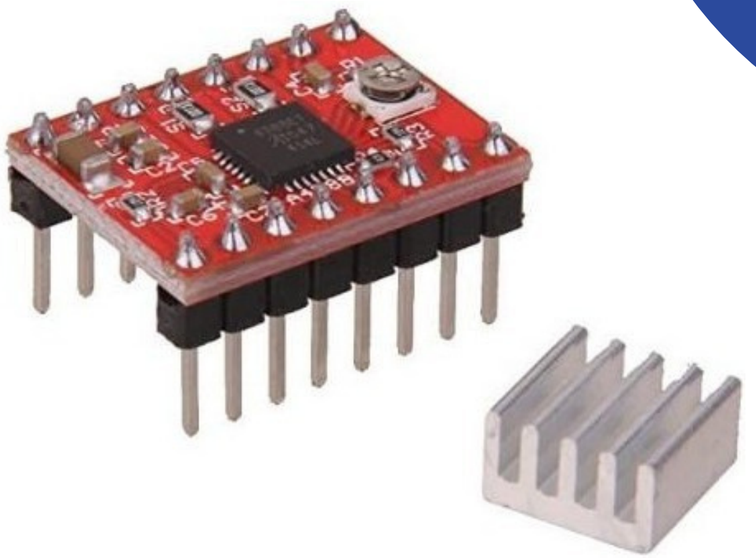
Arduino MEGA



NodeMCU Esp 8266

COMPONENTS

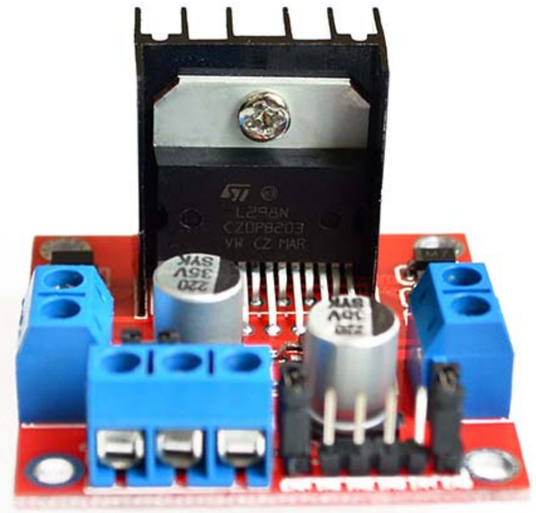
Nema 17



A4988 Driver

COMPONENTS

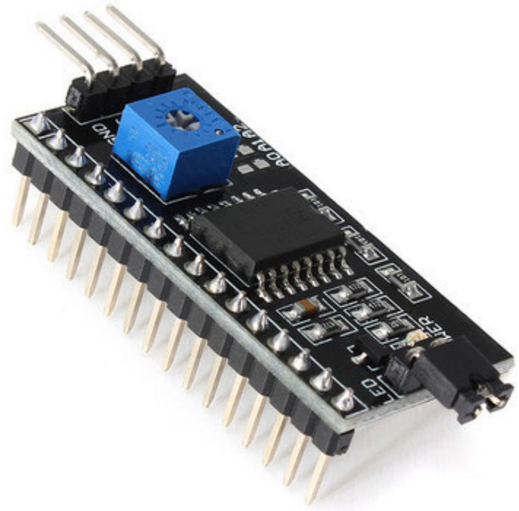
CDROM



L298N H-Bridge

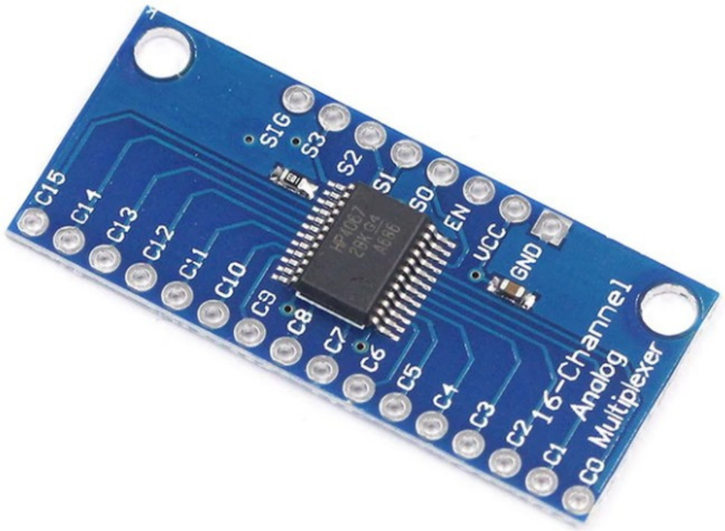
COMPONENTS

LCD

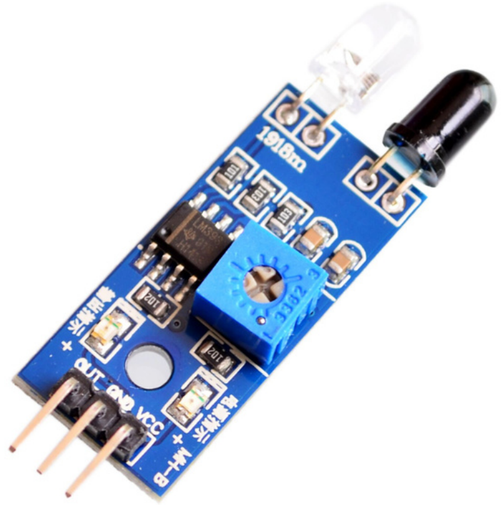


I2C Interface

COMPONENTS



Multiplexer 16x1

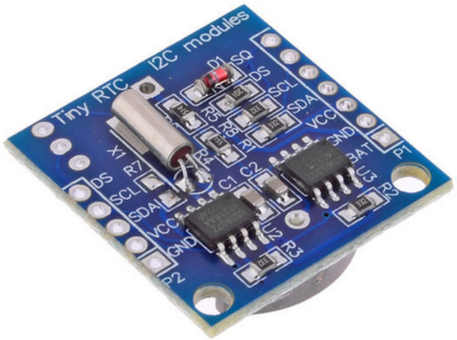


10 IR Sensors

COMPONENTS

RFID

Limit Switch



DS1307 RTC

ADMIN WEB PAGE

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FUTURE WORK

- Add a reservation feature to let the user reserve his parking space before he comes.
- Add payment process.
- Make a mobile application for the user.

THANKS FOR LISTENING