SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY

BIOMEDICAL ENGINEERING

PUBLICTRANSPORTATION OPTIMIZATION

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INTRODUCTION

- Transportation optimization is the process of analyzing shipments , rates and constrains to produce realistic load plans that reduce over all freight spend and gain efficiencies across entire transportation networks.

OBJECTIVE:

- The goals of transportation optimization should include the reduction of costs and creation of greater operational efficiencies , all while increasing customer satisfaction.

- Not a small task , and one that requires constant analysis and monitoring.

PROBLEMS:

- Road accident controlling.
- High speed controlling.
- Petrol detecting.

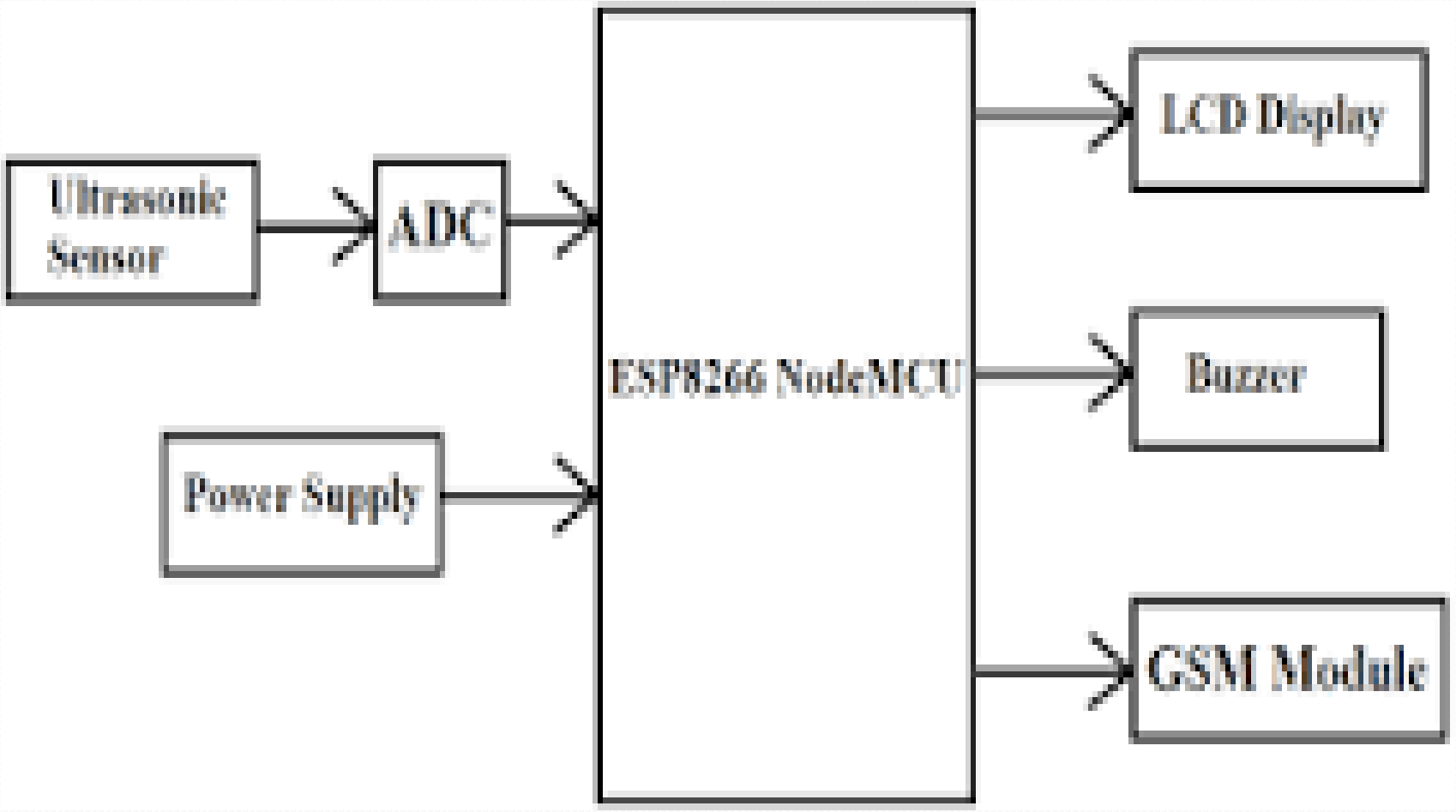
CONTROL OF TRANSPORTATION:

INNOVATION:

- Petrol detecting

  The petrol level is detecting in the sensor near by the petrol bunk connecting into vehicle.

BLOCK DIAGRAM:



BENEFITS

- Increased Visibility. ...
- Faster Delivery Times. ...
- More Accurate Delivery. ...
- Lower Costs for Gas and Maintenance.
- Getting More From What You Already Have.

PROGRAM:

```
const int  ping Pin = 7;
const int  echo Pin = 6;
 void setup() { Serial . begin(9600);
 }
 void loop()
{
 long duration, inches, cm;
Pin Mode(ping Pin, OUTPUT);
 digital Write (ping Pin , LOW);
Delay Microseconds(2);
Digital Write(ping Pin, HIGH);
 delay Microseconds(10);
 digital Write(ping Pin, LOW);
 pin Mode(echo Pin, INPUT);
duration = pulse In(echo Pin, HIGH);
```

CONT....

```
inches = microsecondsToInches(duration);
 cm = microsecondsToCentimeters(duration); Serial.print(inches);
 Serial.print("in, ");
Serial.print(cm);
 Serial.print("cm");
Serial.println();
 delay(100);
}
long microsecondsToInches(long microseconds)
{
 return microseconds / 74 / 2;
 }
 long microsecondsToCentimeters(long microseconds)
 {
return microseconds / 29 / 2;
 }
```


THANK YOU!