

INTELLIPARK AND LIGHT



INTELLI PARK AND LIGHT



PREPARED BY :-

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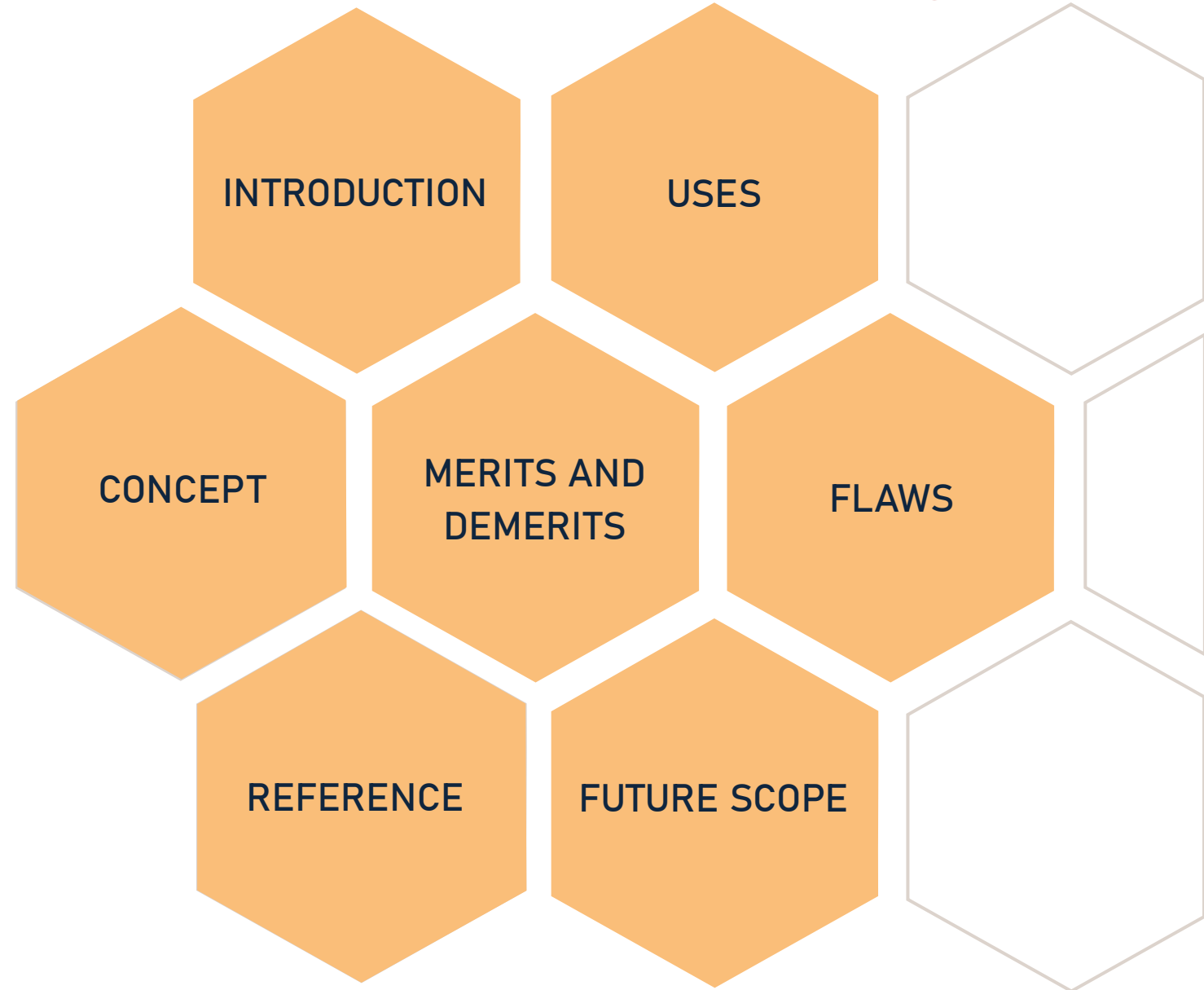
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COVER UP

SYPNOSIS

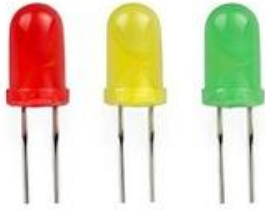
INTELLIPARK AND LIGHT IS A CONCEPT
OF SMART PARKING



PURPOSE OF PROJECT

To analysis real-time data to optimize parking lot usage and guide drivers directly to available spaces. This significantly reduces traffic congestion caused by searching and makes the parking experience faster and less stressful.





LED
(Street Lights)
For street lighting control.



IC 74HC192 (Counter IC)
Counts Cars in Binary



16x2 LCD Display
Displays Parking Info



ARDUINO UNO
(Main Controller)
Brain of the Project.



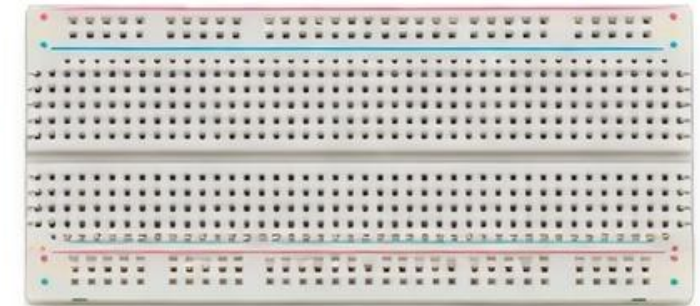
IR SENSOR
(Entry/Exit)
Detects Vehicles.



LDR SENSOR
(Light Detector)
Senses Day/Night.



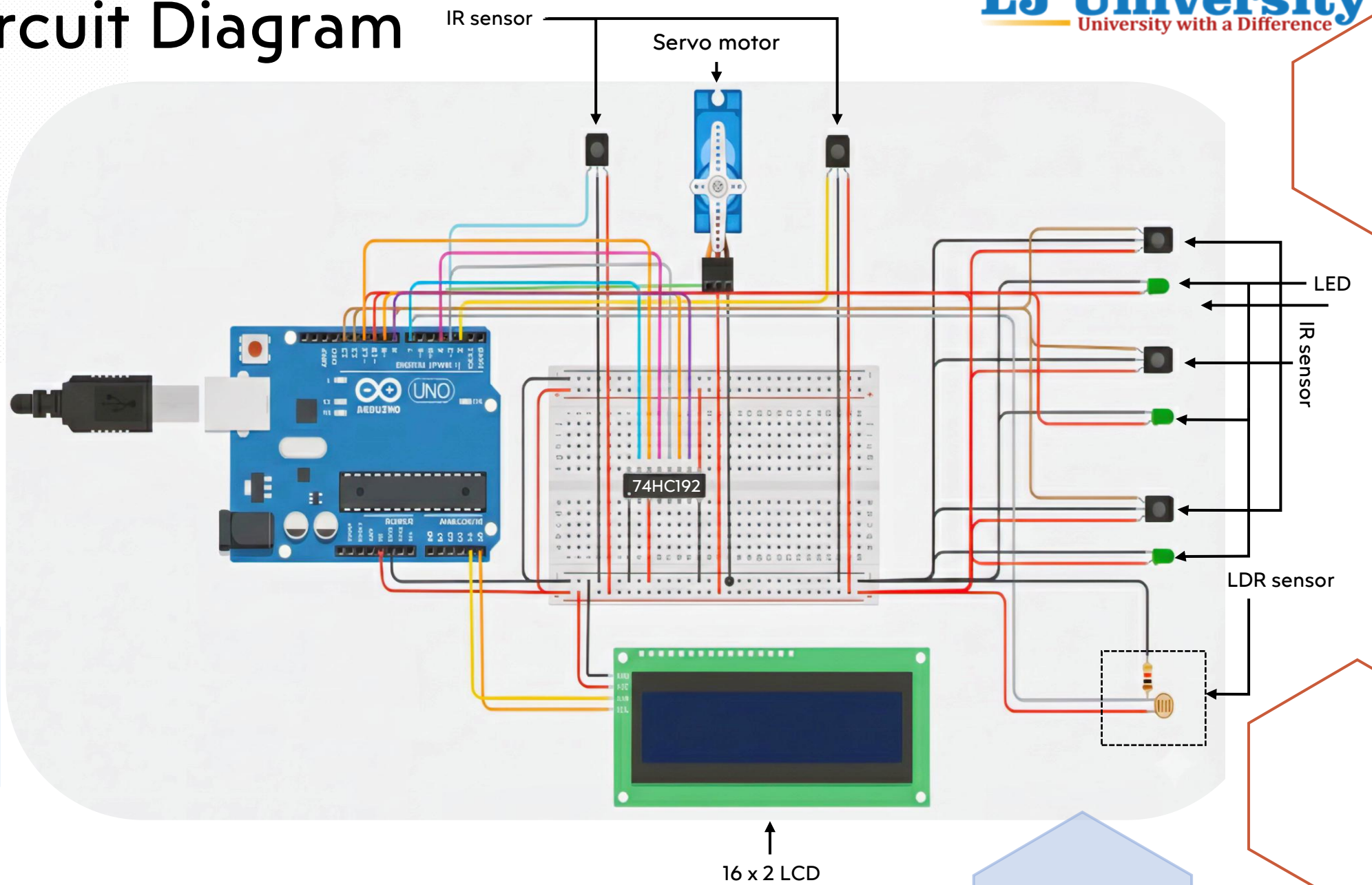
SERVO MOTOR
(Gate Control)
Opens/Closes Gate.



BREADBOARD
(Wiring Base)
Connections Platform.



Circuit Diagram



MERITS AND DEMERITS



MERITS

- Better Space Utilization
- Reduce Unwanted Traffic
- Enhance Security
- User-Friendly With Everyone



DEMERITS

- High Cost
- Maintenance issues
- Internet dependency

FUTURE SCOPE

- AI Based Prediction
- Autonomous Support For Parking
- Full Smartphone Ecosystem
- Advanced Security
- Multi – Level Parking





Thank you

FROM

PANCHAL HARSHIL

PATEL DEVANSH

PATEL DHRUVAL

SHAH DIYA

INTELLI PARK AND LIGHT