Project Proposal

1. Project Title: REVERSE CAR PARKING SYSTEM AND AUTOMATIC SPEED CONTROL

2. End Product/ Deliverable: REVERSE CAR PARKING SYSTEM WITH SPEED CONTROL

3. Electronic Specifications

| S.No.	Name of Component	Specification
1	Raspberry Pi	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.8GHz
2	7"display	Connectivity port compatible with pi3/4(Type-C/Hdmi)
3	L293D	motor IC for building custom motor driver
4	Ultrasound Sensor -2/5	HCSR-04
5	Pi camera with ribbon cable	2MP
6	Jumper cables and custom Motor driver PCB	for connections and control

4. Objective of the project:

To develop a Reverse car parking system with automatic speed control for our Institute's EV car

5. Brief Description of project (With Block Diagram and Flowchart):

Description: This project proposes the development of a Reverse Car Parking System that utilizes audio-visual signals to assist drivers in maneuvering their vehicles into tight spaces. Additionally, the system incorporates an automatic speed control feature that activates upon prolonged car reversal, thereby mitigating the risk of accidents.

Block Diagram
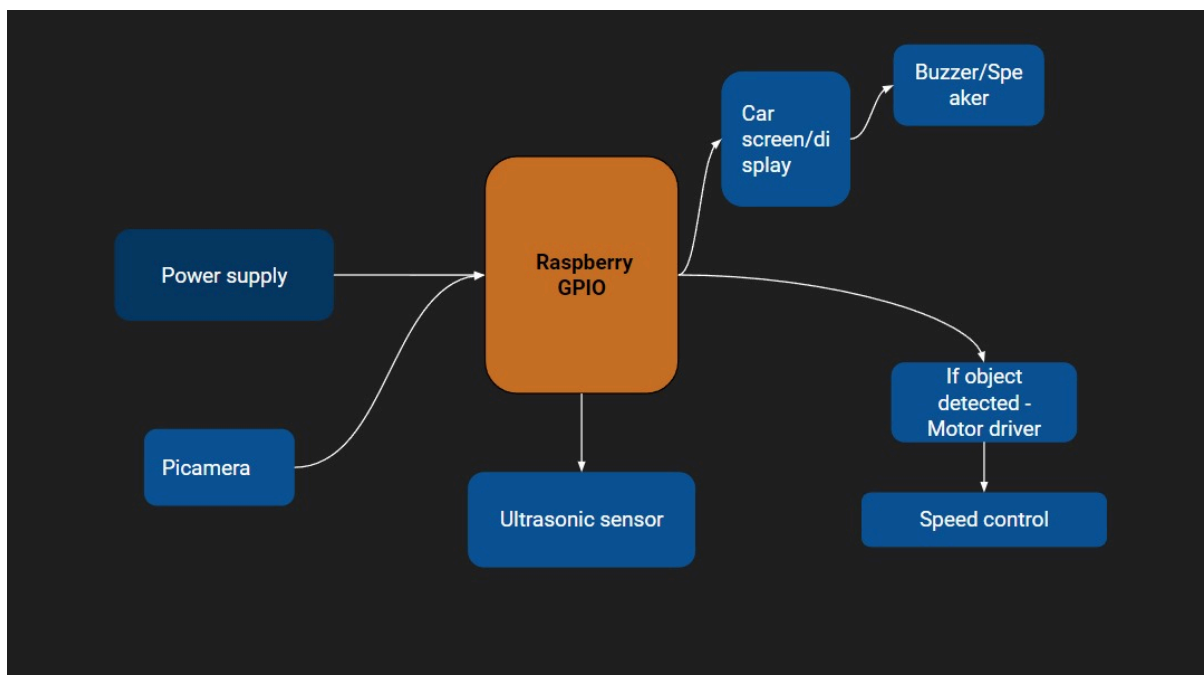
7. Team Members with details

S. No	Name of Student	Roll No.	Email id Mobile No.	Semester
1	Abhinav Tripathi	230957	abhinav.tripathi .23ece@bmu.e du.in 9015697710	II
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8. References: