

# EV & ROBOTICS PROJECTS

## Domain: Electric Vehicles (EVs)

1. Battery Management System for EVs
2. Solar-Powered Electric Car
3. EV Charging Station Design
4. Regenerative Braking System for EVs
5. Electric Scooter Prototype
6. IoT-Based EV Monitoring System
7. Smart Battery Health Analyzer
8. Wireless Charging for EVs
9. Autonomous EV Navigation System
10. EV Energy Efficiency Optimization
11. Smart EV Fleet Management Platform
12. EV Motor Torque Control System
13. EV Battery Swapping Automation
14. IoT-Enabled EV Charging Scheduling

- 15. Energy-Efficient EV Drive Controller
- 16. EV Dashboard With Real-Time Analytics
- 17. Smart Charging Management for Electric Bikes
- 18. EV Load Balancing System
- 19. Autonomous Parking for Electric Vehicles
- 20. EV Smart Inverter Control System

**Domain: Autonomous Vehicles & Drones**

- 21. Line-Following Autonomous Car
- 22. Obstacle Avoidance Drone
- 23. Self-Parking Car System
- 24. Autonomous Delivery Drone
- 25. Path Planning for Autonomous Vehicle
- 26. Drone Traffic Monitoring System
- 27. Real-Time Object Detection for Drones
- 28. GPS-Based Fleet Management System
- 29. Autonomous Agricultural Robot
- 30. AI-Powered EV Driver Assistance System
- 31. Drone-Based Surveying Platform
- 32. Multi-Drone Coordination for Logistics

- 33. Obstacle Avoidance Car Navigation System
- 34. Real-Time Drone Surveillance System
- 35. Autonomous Delivery Vehicle Prototype
- 36. Drone-Based Crop Health Monitoring
- 37. Autonomous Wheelchair Navigation System
- 38. Drone Traffic Signal Monitoring
- 39. AI-Powered Vehicle Route Optimization
- 40. Self-Driving Car Prototype Using Sensors

**Domain: Robotics – Industrial & Service**

- 41. Pick-and-Place Robotic Arm for Factory
- 42. Automated Welding Robot
- 43. Industrial Sorting Robot
- 44. Humanoid Robot With Voice Control
- 45. Robotic Hand for Prosthetics
- 46. Surveillance Robot With Camera
- 47. Warehouse Robot for Goods Handling
- 48. Collaborative Robot (Cobots) Demo
- 49. Robotic Vacuum Cleaner Prototype
- 50. Smart Robotic Assistant for Home
- 51. Robotic Arm With Force Feedback

- 52. Industrial Robotic Inspection Arm
- 53. Autonomous Warehouse Loader Robot
- 54. Humanoid Service Robot Prototype
- 55. AI-Powered Robotic Delivery Assistant
- 56. Smart Robotic Reception Assistant
- 57. Robotic Packaging Arm
- 58. Multi-Robot Industrial Coordination
- 59. Automated Sorting Robot With Vision Sensors
- 60. Industrial Collaborative Robotic System

**Domain: Robotics – Educational & Hobbyist**

- 61. Line Following Robot With Sensors
- 62. Obstacle Avoidance Robot
- 63. Gesture-Controlled Robot
- 64. Bluetooth-Controlled Robot Car
- 65. IoT-Controlled Robot Arm
- 66. Maze Solving Robot
- 67. Ball Balancing Robot
- 68. Voice-Controlled Mini Robot
- 69. Robotic Hand Tracking System
- 70. Arduino-Based Robotic Rover

- 71. Educational Robotic Arm Prototype
- 72. Mini Humanoid Robot for Learning
- 73. Remote-Controlled Surveillance Robot
- 74. Robotic Plant Watering System
- 75. Line Following Educational Robot
- 76. Obstacle Avoiding Mini Robot Car
- 77. Voice-Controlled Arduino Robot
- 78. Gesture-Controlled Robotic Hand
- 79. Educational Maze Solving Robot
- 80. Arduino-Based Smart Rover

**Domain: EV & Motor Control Systems**

- 81. BLDC Motor Controller for EVs
- 82. Smart Motor Drive System
- 83. Regenerative Energy Recovery System
- 84. Speed Control of Electric Vehicle
- 85. IoT-Enabled Motor Monitoring
- 86. PMSM Motor Controller Design
- 87. EV Torque Control System
- 88. Smart Inverter for EVs
- 89. Energy-Efficient Motor Control

90. Electric Bike Speed Regulator
91. DC Motor Control With Feedback
92. EV Traction Control System
93. Smart Motor Controller With IoT
94. Motor Fault Detection for EVs
95. Regenerative Braking Motor Controller
96. Smart EV Motor Dashboard
97. PMSM Motor Drive Optimization
98. IoT-Based Motor Temperature Monitoring
99. Electric Vehicle Motor Safety System
100. Adaptive Motor Control for EVs

