

MECHANICAL PROJECTS 2025 - 26

**** Innovative Problem Statement & Solutions based Projects marked in "Bold Violet Color" ****

1. Automatic Waste Segregation (Separation) System for Industries for Metal, Plastic and Wet Substances
2. Solar Based Energy Efficient Automatic Grass Cutting Robot / Lawn Mover
3. IoT based Smart Environmental Pollution Monitoring Robot (**Based Highly Polluted Cities Such as Delhi**)
4. ROBOTIC arm with base rotation, elbow and wrist motion with a functional gripper for pick and place applications using Android App Control
5. Automatic Record and Play – Robotic Arm using Learning Mechanism for Industrial Automation
6. Toxic / Dangerous Gas Monitoring Robot for Chemical Industries using IoT
7. Anti collision ROBOTIC vehicle with Android based movement Control
8. Android based Land Mine detecting ROBOT with Wireless Camera (Optional)
9. Accident Avoiding System with Crash Detection with GPS and GSM based Notification
10. Development of Data Acquisition Robot for Toxic environmental monitoring and Sending Data directly to PC using Zigbee
11. Smart Fire and Gas Leakage Detection Robot with Android and IoT Technology
12. Intelligent investigating pipeline ROBOT with WIRELESS camera and Temperature Sensor for industrial application –
13. Advance Military Spying and bomb disposal ROBOT with Wireless RF Camera

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14. Smart Speech controlled ROBOT wheel Chair for paralyzed person
15. Gas Pipe leakage detection ROBOT with Wireless high alert notification
16. Autonomous Railway track Crack detection ROBOT with Remote station Alert system using GPS and GSM
17. LPG gas detecting ROBOT with WIRELESS video transmission
18. PC based surveillance ROBOT with wireless video transmission
19. Hybrid Windmill and Solar based High efficient Power Generation System
20. Mini Conveyor Belt Mechanism based on Industrial Automation
21. Advanced Footstep Power Generation System using Piezo Electric Material
22. Foot Step Power Generation with AC Inverter for 220V AC Voltage Genration using Piezo Electric Material
23. Floor Cleaning Robot with RF Camera and Obstacle Detection using Android based Control System
24. Hand gesture (MEMS) based ROBOTIC arm control (prosthetic limb) for physically disabled.
25. Android and Solar based Grass Cutting Lawn Mower
26. Automatic vehicle over speed control system for School / Hospital zone to avoid Accident
27. Wireless Joystick Controlled 3DOF Crane for Material Handling
28. Dual Brush Floor Cleaning Robot with RF Control
29. Live human detecting robot for earthquake rescue operation using gsm and gps.
30. Head movement controlled car driving system to assist the physically challenged
31. Solar based Smart Seed Sowing Robot for Agriculture with Android based Control System
32. 3 Degree of Freedom Robotic Arm control from anywhere in the World using IoT

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33. Live Human Detecting Robot for Human Rescue operation using Android Control
34. Smart Indoor Robot Control Localization System using Wi-Fi
35. Joystick controlled steering mechanism vehicle
36. Wireless Flex Sensor based Robotic Vehicle Control System
37. Flex sensor based glove to mimic / control ROBOTIC wrist
38. Android App Control based pick and place ROBOT Vehicle for Industries
39. Automatic Smart & Energy efficient Solar grass cutter using Ultrasonic Sensor
40. Automatic conveyor belt start and stop mechanism on object detection to save power
41. Color based Material Counter with Conveyor belt mechanism
42. Solar Powered Vehicle for Material Handling Robot with Wireless control
43. Advance Path Learning (Remembering) Robot for Industrial Automation
44. Rough terrain beetle ROBOT
45. Auto guided vehicle with material handling and obstacle detection
46. Auto Metro Train To Shuttle Between Stations
47. Android Phone Accelerometer Sensor based Robot Navigation
48. Infrared light tracing ROBOT (TV remote controlled)
49. Bus Detection and Announcement System for Blind People using RF ID Technology
50. Accurate speed control of car using ARDUINO
51. Fire Extinguishing Robot with Voice based alert System
52. RF remote based Wireless Pipeline Robot with WIRELESS camera for Pipeline Inspection
53. RF Controlled Fork Lift for Industrial Automation
54. Design and Development of Servo / DC Motor Based Solar Panel Tracking System for Energy Efficiency
55. Voice Recognition based Wheel Chair / Car Control for Physical Disabled Person

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56. **RF Controlled Night Vision Spying Robot with Arduino Controller**
57. Android mobile phone accelerometer based ROBOT control
58. Light sensing (follower) ROBOT –
59. Gesture controlled ROBOT –
60. Wildlife observation ROBOT using android control
61. Wired industrial ROBOTIC arm --
62. **CNC based writing machine using android (CNC plotter)**
63. **CNC based writing machine using PC (CNC plotter)**
64. **Poisonous gas detecting ROBOT with android control and Parameter Monitoring**
65. **Hand gesture based wheel chair control for physically disabled Person**
66. Wildlife observation ROBOT with RF control and Wireless Camera
67. WIRELESS industrial ROBOTIC arm with PC automation -
68. Silent land mine detector with SMS alert --
69. Arduino based RF control ROBOT for industries
70. **Smart Room cleaning ROBOT with Anti Collision technology**
71. **Solar based Gravitation (G – Sensor) Controlled ROBOT**
72. **PC based WIRELESS pick and place ROBOT for industrial application**
73. **Anti collision technique using ultrasonic sensor with SMS alert –**
74. **Swarm ROBOTICS (Pair of 2 ROBOTs) with automated control(based on Team work between Future Robots)**
75. DTMF controlled ROBOT --
76. RF controlled ROBOT –
77. Quad copter
78. Speech recognition ROBOT using ARDUINO –
79. Path tracking ROBOT (line follower) --
80. Obstacle avoiding ROBOT (using ultrasonic sensor) --

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81. Obstacle avoiding ROBOT (using IR sensor) –
82. Artificial intelligence based Fire fighting ROBOT --
83. Voice Recognition based Robotic ARM control –
84. **Smoke sensing ROBOT for industrial application –**
85. PC controlled wired ROBOT
86. PC controlled WIRELESSROBOT -
87. Wall follower (hugging) ROBOT --
88. GSM controlled WIRELESSROBOT –
89. IR controlled ROBOTIC vehicle
90. Solar powered ROBOT with RF control –
91. Clap sensing ROBOT—
92. **Touch controlled wheel chair ROBOT for physical challenged-**
93. Touch controller wired ROBOT –
94. Touch controlled WIRELESSROBOT –
95. Touch controlled pick and place ROBOT –
96. Wired joystick control ROBOT –
97. IR controlled ROBOT –
98. **Metro train model to shuttle between stations and displaying station names –**
99. **RF / Android controlled ROBOT with laser and gun arrangement**
100. Industrial temperature monitoring ROBOT
101. Wall painting ROBOT –
102. Automatic scrap collecting ROBOT
103. Automatic vehicle light intensity control to avoid accident
104. **Unmanned ground vehicle (UGV) for Army Surgical Operations**
105. Anti collision technique for trains using IR sensor
106. Cell phone controlled solar vehicle

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- 107.** SMS controlled solar car limit less distance control
- 108.** Solar powered manual controlled ROBOT
- 109.** RF based solar pick and place ROBOT for Industries
- 110.** Specified color activated ROBOTIC vehicle for signaling system



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