

MATLAB Based Project Titles

MATLAB+EMEDDED System Based Project Titles

S. No.	Project Title
1.	Robot controlling through Color Detection
2.	Voice based robotic arm controlling
3.	Edge detection
4.	Cell analysis specifically for body cells
5.	Data acquisition system based on MATLAB and XBEE/RF/Bluetooth
6.	Histogram Plat of Realtime monitoring System
7.	Image Processing of Face and Security System
8.	RF based Security system based on MATLAB
9.	ADHAAR Card Prototype
10.	Simulation of Various Modulation Techniques (ASK/FSK/BPSK....)
11.	Multilevel invertors using Simulnk
12.	Bug Boost Convertor Simulation and Hardware both
13.	Fan Speed Regulation using MATLAB
14.	Light Dimming using Matlab and arduino.

Signal Processing Based Titles

15.	Performance of OFDM over AWGN Channels Using MATLAB Simulation.
16.	Implementation of GMSK in Radio Communication Using MATLAB.
17.	Preprocessing of Speech signal using LPC and Enhancing using wiener filter.
18	Automatic Speaker Recognition System by using MATLAB.
19	Acoustic Echo Cancellation in Hand-free Communication System.
20	Noise Reduction by using Adaptive Filters.
21	Channel Estimation and Detection based on DS-CDMA.
22	Speech Compression Using Wavelets.
23	DS-CDMA in Wireless Handset Communication Using MATLAB.
24	Cellular Traffic Calculation.
25	Implementation of Speech Enhancement using Wiener Filter.
26	LDPC Decoder and BER using MATLAB Simulation.
27	Wimax physical Llayer simulation by using MATLAB.
28	Radar System Design by using MATLAB Simulation.
29	Adaptive Filtering(Adaptive Channel Equalization & Channel Enhancement
30	& Noise Cancellation).
31	Adaptive Time Frequency Analysis by using MATLAB.
32	Speaker Independent Digit Recognition System using MATLAB.
33	Design of Speaker Recognition System.
34	Speaker ID Identification using MATLAB.
35	Binary Step Size based LMS Algorithm Developed by using MATLAB.

36	Speech coding Implemented by using Sub-Band Coders.
37	Synthetic Aperture Radar Signal Processing with MATLAB Algorithms.
38	LPC (Linear Predictive Coding) VOCODER Simulated using MATLAB.
39	Digital Communication Implemented by using MATLAB Simulation.
40	Voice Audio Processing by using MATLAB.
41	Removal of noise from ECG Signal using MATLAB Simulation.
42	Channel coding Developed using Hamming Code Techniques by Using
43	MATLAB Simulation.
44	Smart Antenna System for Mobile Communication using MATLAB.
45	Modern Communication System Implementation using MATLAB.
46	To find Signal Short-time Energy and Zero-crossing MATLAB Simulation.
47	Adaptive Equalizers and Smart Antenna Systems using MATLAB Simulation.
48	Synthetic Aperture Radar Signal Processing with MATLAB Algorithm.
49	RF Design and Analysis using MATLAB Simulation.
50	Frequency Hopping Spread Spectrum, Direct Sequence Spread Spectrum and CDMA.
51.	Speech compression using Linear Predictive Coding.
52	Developing a Financial Market Index Tracker using MATLAB OOP and
53	Genetic Algorithms.
54	Speak the recognized character using MATLAB simulation.
55	Audio Signal Implementation using DCT and FFT.
56	Generation of QPSK Wave forms Using MATLAB Simulation.
57	Speech Recognition System for isolated words using MATLAB.

58	Speech Processing Using Kalman filter.
59	Implementation of Speech De-Noising using Wavelets.
60	Implementation of Alien Voices with GUI Audio Perturbations
61	DCT based Video Processing A Focus Compression using Simulink.
62	Text Independent Speaker Recognition Based on Neaural Network.
63	RADAR simulation.
64	Performance Analysis of Channel Estimation and Adaptive Equalization in Slow Fading Channel.
65	Development of Adaptive Band Width Filter for Tracking Radar Sub-System.
66	WiMAX DL waveform Basic PUSC with preamble boosting.
67	Auto Associative memory.
68	Exact Histogram Specification-Equalization.
69	DTMF Generator and Receiver.
70	DSSS Enhanced with a coarse time Synchronization loop using MATLAB.
71	Direct Sequence Spread spectrum using MATLAB Simulation.
72	Slow Frequency Hopped Spread Spectrum Implementation.
73	Array of Antenna System using MATLAB Simulation.
74	Implementation of Sound Editing System by using MATLAB
75	Text to Speech Conversion Using MATLAB.
76	Speech Compression Using Linear Predictive Coding Technique.
77	Speech Enhancement Using Soft Thresholding with DCT

IEEE BASED PROJECTS

78	Real-time Atomization of agricultural environment for social modernization of Indian agricultural system.
79	Home Automation and Security System via PSTN.
80	Development of Intelligent Power Wheelchair Assisting for People on Daily Life.
81	Design and Implementation of Real Time Vehicle Tracking System.
82	Application of Zigbee for Pollution Monitoring Caused by Automobile Exhaust Gases.
83	Boarding School Students Monitoring Systems (E-ID) Using Radio Frequency Identification.
84	Multi sensor Strategies to Assist Blind People: A Clear-Path Indicator.
85	Development of Remote Waste Gas Monitor System.
86	GPS-GSM Integration for Enhancing Public Transportation Management Services.
87	Item-Level RFID in a Retail Supply Chain with Stock-Out-Based Substitution.
88	Zigbee-based Vehicle Access Control System.
89	Wireless temperature monitoring system based on Zigbee technology.
90	The Smart Home Controller Based on Zigbee.
91	RFID-based Autonomous Mobile Car.
92	Design & Development of a GSM Based Vehicle Theft Control System.
93	An Embedded System and RFID solution for transport related issues.

94	Role of Wireless Sensor Networks in Forest Fire Prevention.
95	Bus Detection Device for the Blind using Passive RFID Application.
96	Design for Wireless Temperature and Humidity Monitoring System of the Intelligent
97	Greenhouse Monitoring System
98	A Remote Home Security System Based on Wireless Sensor Network and GSM Technology
99	Design & Development of GSM Based Vehicle Theft Control System.
100	Wearable Obstacle Avoidance Electronic Travel Aids for Blind.
101	Autonomous Street Lighting System based on Solar Energy and LEDs.
102	Zigbee-Wireless Mesh Networks for Building Automation and Control.
103	Zigbee Based Intelligent Helmet for Coal Miners.
104	Zigbee Wireless Vehicular Identification and Authentication System.
105	ATM card theft identification and Remote Information system.
106	An Electronic Voting System for Haptic Touch screen Interface.

INNOVATIVE PROJECTS

107	Automatic Touch Screen based Wheel chair for patients and physically challenged persons.
108	Intelligent Train Engines to avoid accidents and controlling railway the gate automatically
109	Electronic House – A Well Equipped Modern House
110	Voice guider and medicine reminder for old age people and patients

111	Efficient energy saver for street lights.
112	Wireless controller for power point presentations.
113	Atomization of agricultural environment
114	Accident identification and information system with location
115	ATM card theft identification and Remote Information system
116	Intelligent traffic signaling system for ambulances and VIP vehicles
117	Advanced Robotic Vacuum Cleaner with Wall Sensors and RF Remote Controller
118	Train location indicator
119	Automatic marks announcement system through SMS
120	Station arrival indicator for reserved passengers in trains.
121	Automation of toll gate and unauthorized vehicle tracking.
122	Alcohol Breath Analyzer / Alcohol Sensing Vehicle Starter System
123	Implementation of Secured Black Box in Aircraft
124	Implementation of Automated Multi Storied Car Parking
125	PC Controlled Advanced Wireless Robot Vehicle with Camera for Bomb Detection/ Human Surveillance Application for Dangerous Areas
126	Cell Phone based Robot Direction & Alive Human Detecting
127	Finger Print Verification for Passport Checking.
128	Electronic tourist guide.
129	Electronic health card.

ZIGBEE TECHNOLOGY

130	Zigbee Device Access control system with Reliable data transmission Industrial Process control and Automation system through zigbee n/w
131	Multi stage Real time Weather monitoring System via Zigbee in Homes/Industries
132	Zigbee Wireless Vehicle Identification and Authentication System
133	Applications of Short Range Technologies to Industrial Automation: A Zigbee Approach
134	The Wireless Sensor Network for Home Care System using Zigbee
135	System for Measuring Power Parameters with Zigbee Connectivity.
136	Wireless Data Encryption and Decryption Using Zigbee
137	Zigbee Based Automated Irrigation System.

- Research Project assistance for M.E./M.Tech Students
- Project Report/Thesis development for all engineering domain
- Research Paper presentation and patent Consultancy
- Placement guidance for engineering students

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