

## TIFAC CORE in TELEMATICS

V R Siddhartha Engineering College

### LabVIEW based Projects in Various Engineering Domains -2

	<u>Title</u>	<u>Industry</u>	<u>Branch</u>	<u>Expertise / TAGS</u>
1	AutoIdentification of Modulation Technique	Communication	Electronics, Telecomm	RF, communication
2	Biological effect of radiation from Comm Devices	Telecommunication	Electronics, Biomedical	RF, Biotech
3	Distributed Motion Detection system.	Defence, Security	Electronics	wireless system, surveillance
4	DVD Quality Monitoring System	Electronics	Electronics	Video
5	System to track the Sun Path in real-time	Electronics	Electronics	Solar
6	Power consumption patterns of cell phone operating modes	Telecommunication	Electronics, Telecomm	RF, telecomm
7	Vision based Automated Parking assistance	Electronic, Automotive	Electronics	Vision
8	Power surge monitoring and suppression system	Power utilites	Electrical	Power
9	Remote Pollution Measurement System	Govt. agencies, electronics	Electronics	SCADA, GIS
10	Automatic Vehicle Pollution Monitoring in toll gates	Govt. agencies, electronics	Electronics, Instrumentation	monitoring
11	Energy Management systems at Remote Locations	Construction, Power utilites	Electrical & Electronics	Power, SCADA.
12	Bridge Monitoring Systems	Construction	Electronics, Civil	Bridge, Vibration, monitoring
13	Geographical Information System modelling and mapping software	Govt. agencines, utilites	Computer Science	modelling, mapping, web
14	Automated Identification of Density of Vehicle on road using camera	Govt. agencies	Computer Science	Vision
15	Identification and classification of moving vehicle on road.	Govt. agencies	Computer Science	Vision, OCR
16	Vision based 3D Patten matching system	Manufacturing	Computer Science	Vision, 3D, pattern matching
17	High Precision alignment of ultra thin objects	Semiconductor, manufacturing	Mechanical, Electronic	Vision,
18	Capsule filling Inspection Systems	Pharmaceuticals	Electronics	Inspection, vision

19	Condition Monitoring of Motors using Current Signatures	Power, manufacturing	Electrical, mechanical	NVH, condition monitoring
20	Multiple Sensor Simulation system using FPGA platform	Automotive, Electronics	Electronic, Computer Science	FPGA, simulation
21	Active Noise Cancellation Systems	Electrical,machine, automotive	Mechanical, Computer Science, Electronic	Audio, active digital filters
22	Illegal Radio Station Monitoring Systems	Media, Electronics	Electronics & communication	RF, Communication
23	Wireless Router Test Systems	Electronics	Electronics, Communication	RF, Test Systems, Communication
24	Fabric Soakage Detection using Vision System	Textile	Electronics, Computer Science	Vision, textile
25	Multiple Protocol Simulator on FPGA	Automotive, process industry	Instrumentation, electronics	Simulator, communication, FPGA
26	Partial Discharge monitoring system using noise analysis techniques	Energy	Electrical,	Power, audio
27	Intelligent Mail Sorting System	Government	Electronic, Computer Science	Vision
28	Very Accurate Triangulation technique of RF sources	Govertment, Telecomm	Electronic, telecomm	RF
29	Simulated training system for Rifle Shooting	Electronic, Sports	Electronic, Computer Science	Vision
30	Motion Control using eye movement	Medical, Electronic	Electronic, Mechanical	Vision, motion
31	PCB Visual Test System	Electronics	Electronics, Electrical,Instrumentation	Test Systems, Vision, PCB
32	PCB In-circuit Test System	Electronics	Electronic, Electrical, Instrumentation	Test System, PCB
33	Brain Activity Monitoring System	Electronics, Medical	Electronics, Biomedical, Instrumentation	Biomedical, Brain, Squid sensors
34	Remote Body Parameter Monitoring Systems	Electronics, Medical	Electronics, Biomedical, instrumentation	Biodmedical, telemedicine, Remote Diagnostic
35	Vision guided motion controlled CNC machine	Mechanical, machine builders	Electronics, Mechanical	Vision, Motion, CNC, Machine control
36	Smart Energy Meters	Electrical, Power	Electronics, Electrical	Power, Energy, Remote Monitoring
37	GSM Band Monitoring systems	Electrical, Telecommunication	Electronics, Communication	GSM, Communication, RF
38	Diesel Engine Test Systems	Electronic, Automotive	Electronics, Mechanical, Automotive	Diesel Engine, Automotive, Test system
39	Speaker Audio Test Systems	Audio, Electronics	Electronics	Audio, Speaker, Sound, Test System.
40	Currency Coin Classification System	Mint, Electronics	Electronics	Vision, Classification, Machine building

41	License Plate Monitoring System	RTO, Electronics	Electronics	Vision, OCR, Parking, Traffic
42	Automated Traffic Signal Management System (non Vision)	RTO, Electronics	Electronics, Instrumentation	Sensors, Traffic
43	Furnace Monitoring & Control Systems	Steel, Iron, Mechanical	Electronics, Mechanical, Instrumentation	Furnace, Monitoring, Control
44	Gas Pipeline Monitoring Systems	Govt. Agencies, Electronics	Electronics, Instrumentation	Monitoring, Gas, Remote
45	Mobile Phone Test Systems	Electronics	Electronics, Communications	Communication, Test Systems, Phone
46	Automotive Cluster Inspection Systems	Electronics, Automotive	Electronics	Automotive, Vision, Inspection
47	Wireless Chemical Tank Monitoring Systems	Electronics, Chemical	Electronics, Chemical	Chemical, Monitoring, wireless
48	Rail Locomotive Wheel Monitoring Systems	Railways	Electronics, Mechanical, Instrumentation	Railways, Monitoring
49	Rail Locomotive Axle Monitoring Systems	Railways	Electronics, Mechanical, Instrumentation	Railways, Monitoring
50	Intelligent Security System (Vision based)	Electronics, Security	Electronics, Instrumentation	Vision, Security, Monitoring
51	Remote Transformer Monitoring System	Electrical, Power utilities	Electronic, Electrical	Transformer, Power, Monitoring, Remote
52	Crane Monitoring Systems	Construction, Mechanical, Automotive	Electronics, Mechanical	Automotive, Vibration, Monitoring
53	Fabric Inspection Systems	Textile	Electronics	Vision, Textile
54	Wool Quality Inspection System	Textile	Electronics	Vision, Textile
55	Portable In-vehicular Vibration Analysis System	Automotive	Electronics, Mechanical	Vibration, Automotive, IVDAS, Test
56	Inverted Pendulum Control System	Electronics	Electronic	Control
57	Robotic Pick and Place System	Manufacturing	Electronics	Robotic,
58	ECG Signal Controlled motion System	Medical	Electronics, Biomedical	Medical, ECG, Motion
59	ECU Fault Detection Systems	Automotive	Electronics	ECU, Test Systems
60	Fermentation Process Automation Systems	Chemical, Food	Electronics, Chemical	Chemical, Tea
61	Engine HIL Test System	Automotive	Electronics	Automotive, HIL, Engine
62	ECU HIL Test System	Automotive	Electronics, Automotive	Automotive, HIL, ECU
63	Diesel Generator Emission Control System	Power, Electrical	Electrical, Electronics	Power, Generators, Emission, Control

64	Gas Emission Analysis System	Chemical	Electronics, Chemical, Instrumentation	Chemical, Gas, Emission,
65	Power Quality Monitoring and Alarm Systems	Power, Electrical	Electrical, Electronics	Power, Monitoring
66	Vision Guided Wheel Chair Control Systems	Electronics	Electronic	Machine, Vision, Motion
67	Human Eye guided Computer Control	Electronics	Electronics	Vision
68	Automated Ornaments Manufacturing Inspection System	Jewellery	Electronics	Vision
69	Rapid Prototype Modelling Systems	Design Houses	Electronics, Mechanical	CAD, Modelling
70	Bluetooth Headphone testing System	Electronics	Electronics, Communications	Bluetooth, communication, test, RF
71	RFID device test System	Electronics	Electronics	RFID, test, RF
72	Petrol Dispenser Automation System	Electronics, Petroleum	Electronics, Instrumentation	Petrol, Automation
73	Cloud Computing using LabVIEW	Software, University	Computer Science	Cloud computing
74	Connector Cable Test System	Electronics	Electronics	Cable, Test
75	Audio Mixing System	Electronics, Music	Electronics	Audio, Sound, Music
76	DSL Line Driver Characterisation System	Electronics, Communication	Electronics, Communication	DSL, Telecom, Characterization, communicati
77	Photo-Voltaic cell characterisation System	Electronics, Solar	Electronics, Instrumentation	Solar, PV, Test, Characterisation
78	Face recognition Vision System	Electronics, Security	Electronics	Vision, face recognition, security
79	PDA Test System	Electronics	Electronics	PDA, Test
80	In-Vehicular Audio Mapping System	Electronics, Automotive	Electronics, Automotive	IVDAS, Audio, Automotive, Test
81	Software Defined Radio System	Electronics, Defence	Electronics, Communication	Radio
82	Wing Stress Mapping System	Electronics, Aero	Electronics, Mechanical	Wing, Aeronautical, aircraft, Stress, vibration
83	Automated Helicopter Docking System	Electronics, Aero, Defence	Electronics	Helicopter, Aeronautical, vision, automation
84	Throttle Position Sensing System	Automotive	Electronics, Mechanical	Automotive, Throttle, Engine
85	Set Top Box Test System	Electronics, Broadcasting	Electronics, communication	Set Top Box, Test

86	Building Management System	Electronics, Construction	Electronics,	BMS, Remote
87	Iphone Audio Video test System	Electronic	Electronics	Iphone Audio Video Vision Test
88	Video Compression and Transmission System	Electronics	Electronics	Video, Compression, transmission
89	Audio Compression and Transmission System	Electronics	Electronics	Audio, compression, transmission
90	Automated Vehicle Navigation System	Electronics, Automotive	Electronics, Automotive	Vehicle, Automotive, Automation, navigation
91	Thermal Recording and Mapping System	Electronics	Electronics, Mechanical	Thermal, Recorder, Mapping
92	High Speed Data Recorder and Storing System	Electronics, Defence	Electronics	Data, Recorder, Storage
93	Audio Mapping System	Electronics, Aeronautics	Electronics, Mechanical	Audio, Mapping
94	ZigBee Device Test System	Electronics	Electronics	RF, Zigbee, Test
95	ERP Software for Business	Software, Bank	Computer Science, IT	Software, Computer
96	GPS Device Test System	Electronics	Electronics, Instrumentation	GPS, Test
97	Precious Stones Inspection and Classification System	Jewellery	Electronics	Vision, Jewellery, Inspection
98	Steel Crack Detection System	Steel	Electronics, Mechanical	Steel, Crack,
99	Siesmic Monitoring and Broadcast System	Govt. Agencies, Electronics	Electronics	Geo, Siesmic, Monitoring
100	Vehicle Tyre Inspection System using Vision	Automotive, Tyre	Electronics	Tyre, Automotive, Vision, Inspection
101	Currency Coin Inpsection System	Govt. Agency	Electronics	Currency, Inspection
102	Distributed and Synchronized Data Acquistion System	Electronics	Electronics	GPS, DAQ, Distributed
103	Fuel Pipeline Leakage Detection Systems	Oil and Gas, Petroleum	Electronics	Leakage, Distributed, Inspection
104	WiMax Device Test System	Electronics	Electronics, Communication	WiMax. Communication, Test
105	In-Vehicular Thermal Mapping Systems	Automotive	Electronics, Automotive	Thermal, automotive, mapping
106	Cashewnut Classification using Vision System	Process plants, Production, Quality Agencies	Instrumentation, Electronics, Electrical	Vision, sorting
107	TASK PERFORMING ROBOT BASED ON COLOR RECOGNITION	Automation	Instrumentation, Electronics, Electrical, Mechanical	Automation, Robotics







