CODESELF INFOTECH

Embedded Projects Topics:

Project ID	Project Title
CSIEDS001	Design and Development of a Multi-Loop PID Speed Control System for DC Motors Using STM32
CSIEDS002	Design and Implementation of a Real-Time Closed-Loop Temperature Control System Using PWM Heater Actuation
CSIEDS003	Development of a Multi-Zone Climate Control System Using ARM Cortex-M Microcontroller
CSIEDS004	Design and Implementation of a Precision Servo Positioning System Using Encoder Feedback
CSIEDS005	Development of a Real-Time Liquid Level Control System with Adaptive Pump Actuation
CSIEDS006	Design of a Microcontroller-Based Dual-Axis Solar Tracking Control System
CSIEDS007	Design and Implementation of a Multi-Sensor Feedback Control System for Greenhouse Automation

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CSIEDS008	Development of a Real-Time Pressure Regulation System Using Proportional Valve Control
CSIEDS009	Design of a Microcontroller-Based Adaptive Cruise Speed Control System for Model Vehicles
CSIEDS010	Design and Implementation of a Closed-Loop Humidity Control System for Storage Chambers
CSIEDS011	Design and Implementation of a FreeRTOS-Based Multi-Tasking Data Logger System
CSIEDS012	Development of a Real-Time Task Scheduling Framework for Multi-Sensor Embedded Applications
CSIEDS013	Design of a FreeRTOS-Based Priority-Driven Alarm Management System
CSIEDS014	Implementation of a Real-Time Embedded System for Simultaneous Sensor Polling and Actuation
CSIEDS015	Design and Development of an RTOS-Based Multi-Threaded Industrial Monitoring System
CSIEDS016	Development of a Real-Time Task Synchronization Framework Using Semaphores and Queues

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CSIEDS017	Design of an RTOS-Based Embedded System for Concurrent Motor and Sensor Control
CSIEDS018	Implementation of a Real-Time Embedded Watchdog and Recovery System Using FreeRTOS
CSIEDS019	Design and Development of a Priority-Based Task Scheduler for Embedded Medical Device Prototypes
CSIEDS020	Development of a Real-Time Multi-Tasking Framework for Embedded Data Acquisition Systems
CSIEDS021	Design and Implementation of an FPGA-Based Real-Time Digital Filter for Sensor Signal Processing
CSIEDS022	Development of an FPGA-Based Traffic Light Controller with Adaptive Timing Logic
CSIEDS023	Design of an FPGA-Based UART-to-USB Communication Interface Module
CSIEDS024	Implementation of an FPGA-Based PWM Generator for Multi-Channel Motor Control
CSIEDS025	Design and Development of an FPGA-Based Digital Clock with Multi-Mode Alarm System

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CSIEDS026	Development of an FPGA-Based Elevator Control Logic System
CSIEDS027	Design of an FPGA-Based Serial Communication Protocol Analyzer
CSIEDS028	Implementation of an FPGA-Based Vending Machine Control System Using Finite State Machines
CSIEDS029	Design and Development of an FPGA-Based Digital Stopwatch and Lap Timer System
CSIEDS030	Development of an FPGA-Based Sequential Logic Controller for Industrial Conveyor Systems
CSIEDS031	Design and Implementation of a Multi-Node CAN Bus Communication System for Vehicle Prototypes
CSIEDS032	Development of an RS-485 Based Multi-Drop Communication Network for Industrial Sensors
CSIEDS033	Design of an I2C-Based Multi-Sensor Data Aggregation System for Embedded Applications
CSIEDS034	Implementation of an SPI-Based High-Speed Data Acquisition Interface for Embedded Systems

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CSIEDS035	Design and Development of a Modbus RTU Communication System for Industrial Automation Prototypes
CSIEDS036	Development of a UART-Based Wireless Bridge System for Long-Range Embedded Communication
CSIEDS037	Design of a Multi-Master I2C Communication Framework for Embedded Sensor Networks
CSIEDS038	Implementation of a CAN Bus-Based Distributed Control System for Multi-ECU Prototypes
CSIEDS039	Design and Development of a Fault-Tolerant Serial Communication Protocol for Embedded Systems
CSIEDS040	Development of a Custom Lightweight Communication Protocol for Low-Bandwidth Embedded Links
CSIEDS041	Design and Development of an Embedded Electronic Control Unit Prototype for Engine Monitoring
CSIEDS042	Design of an Embedded Anti-Lock Braking System Prototype Using Wheel Speed Sensors
CSIEDS043	Development of an Embedded Tire Pressure Monitoring System Prototype

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CSIEDS044	Design and Implementation of an Embedded Automatic Headlight Control System
CSIEDS045	Development of an Embedded Driver Drowsiness Alert System Using Eye-Blink Sensor Hardware
CSIEDS046	Design of an Embedded Vehicle Black Box System for Crash Data Logging
CSIEDS047	Implementation of an Embedded Automatic Wiper Control System Using Rain Sensor Feedback
CSIEDS048	Design and Development of an Embedded Electronic Power Steering Control Prototype
CSIEDS049	Development of an Embedded Vehicle Speed Governor System for Fleet Safety Compliance
CSIEDS050	Design of an Embedded Collision Warning System Using Ultrasonic Distance Sensors
CSIEDS051	Design and Implementation of an Embedded Multi-Joint Robotic Arm Control System
CSIEDS052	Development of an Embedded Line-Following Robot Using PID-Based Path Correction

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CSIEDS053	Design of an Embedded Obstacle-Avoidance Robot Using Ultrasonic and Infrared Sensor Fusion
CSIEDS054	Implementation of an Embedded Gesture-Controlled Robotic Vehicle Using Accelerometer Data
CSIEDS055	Design and Development of an Embedded Robotic Gripper Control System with Force Feedback
CSIEDS056	Development of an Embedded Self-Balancing Two-Wheel Robot Using Inertial Sensor Feedback
CSIEDS057	Design of an Embedded Maze-Solving Robot Using Wall-Following Control Algorithms
CSIEDS058	Implementation of an Embedded Pick-and-Place Robotic Arm with Servo Motor Coordination
CSIEDS059	Design and Development of an Embedded Swarm Robotics Coordination Prototype
CSIEDS060	Development of an Embedded Remote-Controlled Robotic Vehicle with Live Telemetry Feedback
CSIEDS061	Design and Implementation of an Embedded PLC Emulator for Small-Scale Process Automation

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CSIEDS062	Development of an Embedded Conveyor Belt Sorting System Using Proximity Sensors
CSIEDS063	Design of an Embedded Automated Bottle-Filling Control System
CSIEDS064	Implementation of an Embedded Machine Safety Interlock System with Emergency Stop Logic
CSIEDS065	Design and Development of an Embedded Assembly Line Fault Detection and Alert System
CSIEDS066	Development of an Embedded Automated Packaging Control System Using Sensor Triggers
CSIEDS067	Design of an Embedded Industrial Motor Overload Protection and Trip System
CSIEDS068	Implementation of an Embedded Multi-Stage Process Sequencing Controller for Batch Production
CSIEDS069	Design and Development of an Embedded Robotic Palletizing Control System Prototype
CSIEDS070	Development of an Embedded Industrial Temperature and Pressure Interlock Safety System

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CSIEDS071	Design and Implementation of an Embedded Sensorless BLDC Motor Control System
CSIEDS072	Development of an Embedded Space Vector PWM Controller for Three-Phase Motor Drives
CSIEDS073	Design of an Embedded Soft-Start Controller for Induction Motor Systems
CSIEDS074	Implementation of an Embedded Regenerative Braking Control System for Electric Vehicle Prototypes
CSIEDS075	Design and Development of an Embedded Stepper Motor Micro-Stepping Control System
CSIEDS076	Development of an Embedded Buck-Boost Converter Controller for Variable Load Applications
CSIEDS077	Design of an Embedded Field-Oriented Control System for Brushless DC Motor Drives
CSIEDS078	Implementation of an Embedded Motor Fault Detection System Using Current Signature Analysis
CSIEDS079	Design and Development of an Embedded Single-Phase Inverter Control System for Backup Power

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CSIEDS080	Development of an Embedded Overvoltage and Overcurrent Protection Controller for Motor Drives
CSIEDS081	Design and Development of a Low-Power Embedded Sensor Node with Adaptive Duty Cycling
CSIEDS082	Design of a Solar-Powered Embedded Sensor Node for Remote Environmental Monitoring
CSIEDS083	Development of an Embedded Sensor Node with Sleep-Wake Optimization for Extended Battery Life
CSIEDS084	Design and Implementation of an Embedded Multi-Sensor Node with Event-Triggered Wake-Up
CSIEDS085	Development of a Low-Power Embedded Data Logger with Deep Sleep Mode Management
CSIEDS086	Design of an Embedded Battery-Powered Sensor Node for Long-Duration Field Deployment
CSIEDS087	Implementation of an Embedded Power-Optimized Sensor Node for Structural Monitoring Applications
CSIEDS088	Design and Development of an Embedded Energy-Efficient Sensor Node for Cold-Chain Monitoring

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CSIEDS089	Development of a Low-Power Embedded Node with Dynamic Voltage Scaling for Sensor Arrays
CSIEDS090	Design of an Embedded Power Budget Management System for Multi-Sensor Field Nodes
CSIEDS091	Design and Development of an Embedded Secure Boot System for Tamper-Resistant Devices
CSIEDS092	Design of an Embedded Biometric Access Control System Using Fingerprint Sensor Hardware
CSIEDS093	Development of an Embedded RFID-Based Secure Authentication System for Restricted Access
CSIEDS094	Design and Implementation of an Embedded Tamper Detection and Alert System for Enclosures
CSIEDS095	Development of an Embedded Multi-Factor Access Control System Using Keypad and RFID Fusion
CSIEDS096	Design of an Embedded Secure Firmware Update System with Cryptographic Verification
CSIEDS097	Implementation of an Embedded Vehicle Anti-Theft System with Immobilizer Control

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CSIEDS098	Design and Development of an Embedded Encrypted Communication Module for Secure Data Logging
CSIEDS099	Development of an Embedded Physical Security Alarm System with Multi-Sensor Fusion
CSIEDS100	Design of an Embedded Access Log and Audit Trail System for Secure Entry Points
CSIEDS101	Design and Development of an Embedded Touchscreen HMI for Industrial Machine Control
CSIEDS102	Design of an Embedded Graphical Dashboard System for Real-Time Process Parameter Display
CSIEDS103	Development of an Embedded Multi-Page Menu-Driven HMI for Equipment Configuration
CSIEDS104	Design and Implementation of an Embedded HMI System for Home Automation Control Panels
CSIEDS105	Development of an Embedded TFT Display-Based Vehicle Instrument Cluster System
CSIEDS106	Design of an Embedded HMI for Real-Time Energy Consumption Visualization

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CSIEDS107	Implementation of an Embedded Touch-Based Access Control Interface with Visual Feedback
CSIEDS108	Design and Development of an Embedded Alarm and Alert Visualization HMI for Safety Systems
CSIEDS109	Development of an Embedded HMI for Multi-Parameter Agricultural Monitoring Displays
CSIEDS110	Design of an Embedded Rotary Encoder-Based Menu Navigation HMI for Industrial Panels
CSIEDS111	Design and Development of a LoRa-Based Long-Range Embedded Communication System for Rural Monitoring
CSIEDS112	Design of a BLE-Based Embedded Wireless Sensor Data Transmission System
CSIEDS113	Development of a Zigbee-Based Embedded Mesh Network for Multi-Point Sensor Monitoring
CSIEDS114	Design and Implementation of an RF-Based Embedded Wireless Control System for Remote Actuation
CSIEDS115	Development of a Wi-Fi-Based Embedded Wireless Data Logging System with Local Storage Backup

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CSIEDS116	Design of an NRF24L01-Based Embedded Wireless Communication System for Multi-Node Networks
CSIEDS117	Implementation of a Wireless Embedded System for Long-Range Agricultural Field Monitoring
CSIEDS118	Design and Development of an Embedded Wireless Alarm Notification System for Remote Sites
CSIEDS119	Development of a Dual-Radio Embedded System for Redundant Wireless Communication Links
CSIEDS120	Design of an Embedded Wireless Telemetry System for Remote Machine Health Monitoring
CSIEDS121	Design and Development of an Embedded Portable ECG Signal Acquisition and Display System
CSIEDS122	Design of an Embedded Pulse Oximeter Prototype with Real-Time Waveform Display
CSIEDS123	Development of an Embedded Automated Pill Dispenser System with Scheduled Alerts
CSIEDS124	Design and Implementation of an Embedded Digital Stethoscope Signal Acquisition System

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CSIEDS125	Development of an Embedded Body Temperature Monitoring System with Alert Thresholds
CSIEDS126	Design of an Embedded Infusion Rate Control System for Prototype IV Drip Monitoring
CSIEDS127	Implementation of an Embedded Fall Detection System Using Accelerometer and Gyroscope Fusion
CSIEDS128	Design and Development of an Embedded Portable Blood Pressure Measurement Prototype
CSIEDS129	Development of an Embedded Patient Monitoring System with Multi-Vital Sign Display
CSIEDS130	Design of an Embedded Smart Wheelchair Control System with Joystick and Sensor Feedback
CSIEDS131	Design and Development of a Multi-Channel Embedded Data Acquisition System for Lab Instrumentation
CSIEDS132	Design of an Embedded High-Speed Data Logger for Vibration Signal Capture
CSIEDS133	Development of an Embedded Data Acquisition System with SD Card-Based Local Storage

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CSIEDS134	Design and Implementation of an Embedded Multi-Sensor Data Logging System for Field Trials
CSIEDS135	Development of an Embedded Data Acquisition System with Real-Time USB Streaming
CSIEDS136	Design of an Embedded Weather Parameter Data Logging System with Timestamped Storage
CSIEDS137	Implementation of an Embedded Multi-Rate Data Acquisition System for Mixed-Sensor Arrays
CSIEDS138	Design and Development of an Embedded Industrial Process Data Logger with Alarm Thresholds
CSIEDS139	Development of an Embedded Data Acquisition System for Structural Strain Gauge Monitoring
CSIEDS140	Design of an Embedded Power Quality Data Logging System for Load Analysis
CSIEDS141	Design and Development of an Embedded Logic Analyzer for Low-Cost Protocol Debugging
CSIEDS142	Design of an Embedded Signal Generator for Testing Sensor Interface Circuits

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CSIEDS143	Development of an Embedded Hardware-in-the-Loop Test Rig for Motor Controller Validation
CSIEDS144	Design and Implementation of an Embedded UART Protocol Analyzer and Debug Tool
CSIEDS145	Development of an Embedded PCB Continuity and Fault Tester System
CSIEDS146	Design of an Embedded Battery Discharge Testing and Characterization System
CSIEDS147	Implementation of an Embedded Automated Test Bench for Sensor Calibration Verification
CSIEDS148	Design and Development of an Embedded Stress Test Framework for Firmware Reliability Validation
CSIEDS149	Development of an Embedded Diagnostic Tool for Automotive OBD-II Fault Code Reading
CSIEDS150	Design of an Embedded Load Testing System for Power Supply Validation
CSIEDS151	Design and Development of a Multi-Layer PCB for a Compact Embedded Sensor Interface Module

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CSIEDS152	Design of a Noise-Isolated PCB Layout for Precision Analog Sensor Signal Acquisition
CSIEDS153	Development of a Custom PCB Design for a Battery-Powered Embedded IoT-Free Sensor Node
CSIEDS154	Design and Implementation of a Motor Driver PCB with Integrated Current Sensing Feedback
CSIEDS155	Development of a Compact PCB Design for an Embedded Wearable Health Monitoring Device
CSIEDS156	Design of a Power Distribution PCB for Multi-Rail Embedded System Applications
CSIEDS157	Implementation of a High-Density PCB Layout for a Multi-Sensor Embedded Data Logger
CSIEDS158	Design and Development of a Custom PCB for an Embedded Motor Control Driver Module
CSIEDS159	Development of a Ruggedized PCB Design for Outdoor Embedded Environmental Monitoring Systems
CSIEDS160	Design of a Modular PCB Architecture for Reconfigurable Embedded Prototype Development

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CSIEDS161	Design and Development of an Embedded Maximum Power Point Tracking Controller for Solar Panels
CSIEDS162	Design of an Embedded Solar Charge Controller with Battery State Monitoring
CSIEDS163	Development of an Embedded Dual-Axis Solar Tracker Control System
CSIEDS164	Design and Implementation of an Embedded Wind Turbine Speed Monitoring and Control System
CSIEDS165	Development of an Embedded Hybrid Solar-Wind Power Management Controller
CSIEDS166	Design of an Embedded Grid-Tie Inverter Monitoring and Control Prototype
CSIEDS167	Implementation of an Embedded Solar Panel Fault Detection System Using Current-Voltage Analysis
CSIEDS168	Design and Development of an Embedded Off-Grid Solar Power Management System
CSIEDS169	Development of an Embedded Renewable Energy Load Scheduling Controller

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CSIEDS170	Design of an Embedded Solar-Powered Water Pumping Control System
CSIEDS171	Design and Development of an Embedded Battery Management System with Cell Balancing
CSIEDS172	Design of an Embedded State-of-Charge Estimation System for Lithium-Ion Battery Packs
CSIEDS173	Development of an Embedded Battery Overcharge and Overdischarge Protection Controller
CSIEDS174	Design and Implementation of an Embedded Multi-Cell Battery Voltage Monitoring System
CSIEDS175	Development of an Embedded Battery Temperature Monitoring and Thermal Protection System
CSIEDS176	Design of an Embedded Battery Health Monitoring System for State-of-Health Estimation
CSIEDS177	Implementation of an Embedded Smart Battery Charger with Adaptive Charging Profiles
CSIEDS178	Design and Development of an Embedded Battery Management System for Electric Bike Prototypes

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CSIEDS179	Development of an Embedded Battery Fault Detection and Isolation System
CSIEDS180	Design of an Embedded Battery Pack Monitoring System with CAN Bus Communication
CSIEDS181	Design and Development of an Embedded Smart Energy Meter with Real-Time Consumption Display
CSIEDS182	Design of an Embedded Prepaid Energy Metering System with Automatic Load Cutoff
CSIEDS183	Development of an Embedded Water Flow Metering System with Leak Detection Alerts
CSIEDS184	Design and Implementation of an Embedded Gas Metering System with Safety Shutoff Control
CSIEDS185	Development of an Embedded Multi-Utility Metering System for Combined Energy and Water Monitoring
CSIEDS186	Design of an Embedded Power Theft Detection System Using Current Comparison Analysis
CSIEDS187	Implementation of an Embedded Smart Meter with Local Display and Data Logging

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CSIEDS188	Design and Development of an Embedded Load Profiling System for Energy Meters
CSIEDS189	Development of an Embedded Meter Tamper Detection and Alert System
CSIEDS190	Design of an Embedded Automatic Meter Reading System with Local Wireless Transmission
CSIEDS191	Design and Development of an Embedded Automated Drip Irrigation Control System
CSIEDS192	Design of an Embedded Soil Moisture-Based Irrigation Scheduling Controller
CSIEDS193	Development of an Embedded Greenhouse Automation System for Climate Control
CSIEDS194	Design and Implementation of an Embedded Automated Fertilizer Dosing Control System
CSIEDS195	Development of an Embedded Crop Field Monitoring System with Multi-Parameter Sensing
CSIEDS196	Design of an Embedded Automated Poultry Feed Dispensing System

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CSIEDS197	Implementation of an Embedded Solar-Powered Field Monitoring Station for Remote Farms
CSIEDS198	Design and Development of an Embedded Automated Sprinkler Control System with Rain Sensing
CSIEDS199	Development of an Embedded Livestock Water Trough Level Monitoring and Refill System
CSIEDS200	Design of an Embedded Pest Trap Monitoring System with Sensor-Based Alerting
CSIEDS201	Design and Development of an Embedded Multi-Room Lighting Automation Control System
CSIEDS202	Design of an Embedded Motion-Activated Security Lighting Control System
CSIEDS203	Development of an Embedded Smart Door Lock System with Multi-Factor Authentication Hardware
CSIEDS204	Design and Implementation of an Embedded HVAC Automation Controller for Residential Buildings
CSIEDS205	Development of an Embedded Fire and Smoke Detection Alarm System with Automatic Actuation

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CSIEDS206	Design of an Embedded Curtain and Blind Automation Control System
CSIEDS207	Implementation of an Embedded Water Leak Detection and Automatic Shutoff System
CSIEDS208	Design and Development of an Embedded Gas Leak Detection Alarm System with Ventilation Control
CSIEDS209	Development of an Embedded Automated Garage Door Control System with Obstacle Sensing
CSIEDS210	Design of an Embedded Building Energy Load Management Controller
CSIEDS211	Design and Development of an Embedded Adaptive Traffic Signal Control System
CSIEDS212	Design of an Embedded Vehicle Density-Based Traffic Light Timing Controller
CSIEDS213	Development of an Embedded Railway Level Crossing Automatic Gate Control System
CSIEDS214	Design and Implementation of an Embedded Pedestrian Crossing Signal Control System

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CSIEDS215	Development of an Embedded Smart Parking Barrier Control System with Slot Detection
CSIEDS216	Design of an Embedded Vehicle Speed Detection and Alert System for Traffic Zones
CSIEDS217	Implementation of an Embedded Automated Toll Barrier Control System
CSIEDS218	Design and Development of an Embedded Emergency Vehicle Priority Signal Control System
CSIEDS219	Development of an Embedded Street Light Automation System with Ambient Light Sensing
CSIEDS220	Design of an Embedded Bus Arrival Display Control System for Transit Stops
CSIEDS221	Design and Development of an Embedded Flight Controller for Quadcopter Stability Control
CSIEDS222	Design of an Embedded Multi-Rotor Motor Speed Controller Using Electronic Speed Control Interfacing
CSIEDS223	Development of an Embedded GPS-Based Waypoint Navigation System for UAV Prototypes

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CSIEDS224	Design and Implementation of an Embedded Altitude Hold Control System for Drones
CSIEDS225	Development of an Embedded Telemetry Transmission System for Drone Flight Data Monitoring
CSIEDS226	Design of an Embedded Battery Voltage Monitoring and Failsafe Landing System for UAVs
CSIEDS227	Implementation of an Embedded Remote Control Receiver Interface for Multi-Rotor Systems
CSIEDS228	Design and Development of an Embedded Gimbal Stabilization Control System for Drone Cameras
CSIEDS229	Development of an Embedded Return-to-Home Failsafe Control System for UAV Prototypes
CSIEDS230	Design of an Embedded Payload Release Mechanism Controller for Agricultural Drones
CSIEDS231	Design and Development of an Embedded Real-Time Digital Filter for Noise Reduction in Sensor Signals
CSIEDS232	Design of an Embedded FFT-Based Vibration Spectrum Analyzer for Machine Monitoring

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CSIEDS233	Development of an Embedded Audio Signal Processing System for Noise Cancellation Prototypes
CSIEDS234	Design and Implementation of an Embedded Digital Signal Conditioning System for Biomedical Sensors
CSIEDS235	Development of an Embedded Adaptive Filter for Motor Current Ripple Reduction
CSIEDS236	Design of an Embedded Real-Time Peak Detection System for Pulse Signal Analysis
CSIEDS237	Implementation of an Embedded Digital Envelope Detector for Sensor Signal Demodulation
CSIEDS238	Design and Development of an Embedded Moving-Average Filter System for Sensor Data Smoothing
CSIEDS239	Development of an Embedded Frequency Counter System for Rotational Speed Measurement
CSIEDS240	Design of an Embedded Digital Signal Processing Pipeline for Strain Gauge Load Measurement
CSIEDS241	Design and Development of an Embedded Wearable Fall Detection and Alert Device

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CSIEDS242	Design of an Embedded Wearable Heart Rate Monitoring Device with Local Display
CSIEDS243	Development of an Embedded Wearable Activity Tracker with Step-Counting Hardware
CSIEDS244	Design and Implementation of an Embedded Wearable Posture Correction Alert Device
CSIEDS245	Development of an Embedded Wearable Temperature Monitoring Band for Health Tracking
CSIEDS246	Design of an Embedded Wearable SOS Alert Device with GPS Location Transmission
CSIEDS247	Implementation of an Embedded Wearable Vibration Alert Device for Hearing-Impaired Users
CSIEDS248	Design and Development of an Embedded Wearable Sleep Monitoring Device Prototype
CSIEDS249	Development of an Embedded Wearable Air Quality Exposure Monitoring Device
CSIEDS250	Design of an Embedded Wearable Smart Band for Elderly Health Parameter Monitoring

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CSIEDS251	Design and Development of an Embedded IMU-Based Orientation Estimation System Using Complementary Filtering
CSIEDS252	Design of an Embedded Multi-Sensor Fusion System for Robot Localization Using Encoder and Gyroscope Data
CSIEDS253	Development of an Embedded Sensor Fusion System for Precision Attitude Estimation in UAV Prototypes
CSIEDS254	Design and Implementation of an Embedded Kalman Filter-Based Sensor Fusion System for Navigation
CSIEDS255	Development of an Embedded Multi-Sensor Environmental Fusion System for Accurate Weather Estimation
CSIEDS256	Design of an Embedded Sensor Fusion System Combining Ultrasonic and Infrared Data for Obstacle Mapping
CSIEDS257	Implementation of an Embedded Redundant Sensor Voting System for Fault-Tolerant Measurement
CSIEDS258	Design and Development of an Embedded Multi-Rate Sensor Fusion Framework for Motion Tracking
CSIEDS259	Development of an Embedded Sensor Fusion System for Combined Temperature-Humidity-Pressure Estimation

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CSIEDS260	Design of an Embedded Sensor Fusion-Based Tilt Compensation System for Compass Accuracy
CSIEDS261	Design and Development of a Custom Embedded Bootloader for UART-Based Firmware Updates
CSIEDS262	Design of an Embedded Dual-Bank Firmware Update System for Fail-Safe Recovery
CSIEDS263	Development of an Embedded Bootloader with CRC-Based Firmware Integrity Verification
CSIEDS264	Design and Implementation of an Embedded Over-the-Air Firmware Update System Using Wi-Fi
CSIEDS265	Development of an Embedded Bootloader for SD Card-Based Firmware Loading
CSIEDS266	Design of an Embedded Secure Bootloader with Password-Protected Firmware Flashing
CSIEDS267	Implementation of an Embedded Bootloader Supporting Multiple Microcontroller Application Images
CSIEDS268	Design and Development of an Embedded Recovery Mode Bootloader for Corrupted Firmware Restoration

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CSIEDS269	Development of an Embedded Bootloader with Progress Indication on Local Display
CSIEDS270	Design of an Embedded Bluetooth-Based Firmware Update System for Wireless Devices
CSIEDS271	Design and Development of a Low-Cost Hardware-in-the-Loop Test Rig for Motor Controller Validation
CSIEDS272	Design of a Hardware-in-the-Loop Simulation Setup for Embedded PID Controller Testing
CSIEDS273	Development of a Hardware-in-the-Loop Test Bench for Embedded Sensor Calibration Verification
CSIEDS274	Design and Implementation of a Hardware-in-the-Loop Framework for Embedded Battery Charger Testing
CSIEDS275	Development of a Hardware-in-the-Loop Rig for Embedded Automotive ECU Prototype Validation
CSIEDS276	Design of a Hardware-in-the-Loop Test Setup for Embedded Solar Charge Controller Verification
CSIEDS277	Implementation of a Hardware-in-the-Loop Framework for Embedded Robotic Arm Controller Testing

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CSIEDS278	Design and Development of a Hardware-in-the-Loop Rig for Embedded HVAC Controller Validation
CSIEDS279	Development of a Hardware-in-the-Loop Test Bench for Embedded Power Converter Verification
CSIEDS280	Design of a Hardware-in-the-Loop Framework for Embedded Elevator Control System Testing
CSIEDS281	Design and Development of an Embedded 3-Axis CNC Motion Controller Using Stepper Motors
CSIEDS282	Design of an Embedded 3D Printer Extruder Temperature Control System
CSIEDS283	Development of an Embedded G-Code Interpreter for CNC Machine Control
CSIEDS284	Design and Implementation of an Embedded Bed Leveling Control System for 3D Printers
CSIEDS285	Development of an Embedded Multi-Axis Synchronization Controller for CNC Router Machines
CSIEDS286	Design of an Embedded Laser Engraving Machine Control System

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CSIEDS287	Implementation of an Embedded Filament Runout Detection System for 3D Printers
CSIEDS288	Design and Development of an Embedded CNC Spindle Speed Control System
CSIEDS289	Development of an Embedded Print Bed Auto-Calibration System for 3D Printers
CSIEDS290	Design of an Embedded Limit Switch-Based Homing Control System for CNC Machines
CSIEDS291	Design and Development of an Embedded Multi-Floor Elevator Control System with Call Prioritization
CSIEDS292	Design of an Embedded Elevator Door Control System with Obstacle Sensing
CSIEDS293	Development of an Embedded Elevator Load Sensing and Overload Alert System
CSIEDS294	Design and Implementation of an Embedded Elevator Emergency Stop and Alarm System
CSIEDS295	Development of an Embedded Elevator Position Sensing System Using Encoder Feedback

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CSIEDS296	Design of an Embedded Multi-Car Elevator Dispatch Control System
CSIEDS297	Implementation of an Embedded Elevator Power Backup and Auto-Rescue Control System
CSIEDS298	Design and Development of an Embedded Elevator Access Control System with Floor Restriction
CSIEDS299	Development of an Embedded Elevator Motor Speed Control System for Smooth Ride Comfort
CSIEDS300	Design of an Embedded Elevator Maintenance Diagnostic and Fault Logging System
CSIEDS301	Design and Development of an Embedded Multi-Zone Fire Detection and Alarm System
CSIEDS302	Design of an Embedded Smoke and Heat Sensor Fusion-Based Fire Alarm System
CSIEDS303	Development of an Embedded Gas Leak Detection System with Automatic Ventilation Control
CSIEDS304	Design and Implementation of an Embedded Fire Sprinkler Automatic Activation Control System

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CSIEDS305	Development of an Embedded Building Evacuation Alert System with Zone-Wise Alarm Control
CSIEDS306	Design of an Embedded Industrial Explosion-Proof Gas Detection Alarm System
CSIEDS307	Implementation of an Embedded Fire Alarm System with Automatic Emergency Contact Notification
CSIEDS308	Design and Development of an Embedded Carbon Monoxide Detection and Alert System
CSIEDS309	Development of an Embedded Fire Extinguisher Automatic Discharge Control System
CSIEDS310	Design of an Embedded Multi-Sensor Safety Alarm Panel for Industrial Facilities
CSIEDS311	Design and Development of an Embedded Automated Parking Barrier Control System
CSIEDS312	Design of an Embedded Parking Slot Occupancy Detection System Using Sensor Arrays
CSIEDS313	Development of an Embedded Multi-Level Parking Guidance Display System

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CSIEDS314	Design and Implementation of an Embedded Automated Parking Ticket Dispensing System
CSIEDS315	Development of an Embedded Vehicle Entry-Exit Counting System for Parking Lots
CSIEDS316	Design of an Embedded Reserved Parking Slot Access Control System
CSIEDS317	Implementation of an Embedded Automated Parking Fee Calculation and Barrier Release System
CSIEDS318	Design and Development of an Embedded Two-Wheeler and Four-Wheeler Segregated Parking Control System
CSIEDS319	Development of an Embedded Overstay Alert System for Parking Management
CSIEDS320	Design of an Embedded Automated Valet Parking Signal Control System
CSIEDS321	Design and Development of an Embedded RFID-Based Multi-User Access Control System
CSIEDS322	Design of an Embedded Fingerprint-Based Door Access Control System with Logging

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CSIEDS323	Development of an Embedded Keypad and RFID Dual-Authentication Access Control System
CSIEDS324	Design and Implementation of an Embedded Visitor Management Access Control System
CSIEDS325	Development of an Embedded Time-Restricted Access Control System for Restricted Zones
CSIEDS326	Design of an Embedded Vehicle Access Control System Using RFID Tag Recognition
CSIEDS327	Implementation of an Embedded Multi-Door Access Control System with Centralized Logging
CSIEDS328	Design and Development of an Embedded Emergency Override Access Control System
CSIEDS329	Development of an Embedded Access Control System with Anti-Passback Logic
CSIEDS330	Design of an Embedded Locker Access Control System Using Individual PIN Authentication
CSIEDS331	Design and Development of an Embedded Automated Water Tank Level Control System

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CSIEDS332	Design of an Embedded Water Quality Monitoring System with Multi-Parameter Sensing
CSIEDS333	Development of an Embedded Automated Water Pump Scheduling and Control System
CSIEDS334	Design and Implementation of an Embedded Water Leak Detection and Shutoff System
CSIEDS335	Development of an Embedded Overhead Tank Overflow Prevention Control System
CSIEDS336	Design of an Embedded Borewell Water Level Monitoring and Pump Protection System
CSIEDS337	Implementation of an Embedded Water Distribution Valve Control System for Multi-Zone Supply
CSIEDS338	Design and Development of an Embedded Rainwater Harvesting Tank Monitoring System
CSIEDS339	Development of an Embedded Water Flow Rate Monitoring and Billing System
CSIEDS340	Design of an Embedded Automated Water Purification Process Control System

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CSIEDS341	Design and Development of an Embedded Zone-Based HVAC Temperature Control System
CSIEDS342	Design of an Embedded Occupancy-Based HVAC Energy Saving Control System
CSIEDS343	Development of an Embedded Air Quality-Based Ventilation Control System
CSIEDS344	Design and Implementation of an Embedded Duct Damper Control System for Airflow Regulation
CSIEDS345	Development of an Embedded HVAC Compressor Cycling Control System for Energy Efficiency
CSIEDS346	Design of an Embedded Humidity-Based HVAC Control System for Data Center Cooling
CSIEDS347	Implementation of an Embedded Multi-Sensor HVAC Fault Detection and Alert System
CSIEDS348	Design and Development of an Embedded Smart Thermostat Control System with Scheduling
CSIEDS349	Development of an Embedded HVAC Filter Replacement Alert System Based on Airflow Sensing

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CSIEDS350	Design of an Embedded Chiller Plant Monitoring and Control Prototype System
CSIEDS351	Design and Development of an Embedded Multi-Parameter Weather Monitoring Station
CSIEDS352	Design of an Embedded Rainfall Measurement System Using Tipping Bucket Sensor Interfacing
CSIEDS353	Development of an Embedded Wind Speed and Direction Monitoring System
CSIEDS354	Design and Implementation of an Embedded Solar Radiation Monitoring System
CSIEDS355	Development of an Embedded Barometric Pressure Trend Analysis Weather Station
CSIEDS356	Design of an Embedded Automated Weather Station with Local Data Display and Storage
CSIEDS357	Implementation of an Embedded UV Index Monitoring System for Weather Stations
CSIEDS358	Design and Development of an Embedded Frost and Dew Point Detection Weather System

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CSIEDS359	Development of an Embedded Solar-Powered Remote Weather Monitoring Station
CSIEDS360	Design of an Embedded Weather-Based Automated Irrigation Trigger System
CSIEDS361	Design and Development of an Embedded EV Charging Station Controller with Load Management
CSIEDS362	Design of an Embedded EV Charging Access Control System Using RFID Authentication
CSIEDS363	Development of an Embedded EV Charging Rate Monitoring and Billing System
CSIEDS364	Design and Implementation of an Embedded EV Charging Station Fault Detection System
CSIEDS365	Development of an Embedded Multi-Port EV Charging Load Balancing Controller
CSIEDS366	Design of an Embedded EV Battery State Monitoring Interface for Charging Stations
CSIEDS367	Implementation of an Embedded EV Charging Station Safety Interlock System

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CSIEDS368	Design and Development of an Embedded Solar-Powered EV Charging Station Controller
CSIEDS369	Development of an Embedded EV Charging Station Queue Management Display System
CSIEDS370	Design of an Embedded EV Charging Cable Lock and Release Control System
CSIEDS371	Design and Development of an Embedded Strain Gauge-Based Structural Monitoring System
CSIEDS372	Design of an Embedded Vibration Monitoring System for Bridge Structural Health Assessment
CSIEDS373	Development of an Embedded Crack Detection Alert System Using Sensor Arrays
CSIEDS374	Design and Implementation of an Embedded Tilt and Displacement Monitoring System for Structures
CSIEDS375	Development of an Embedded Load Monitoring System for Building Structural Safety
CSIEDS376	Design of an Embedded Multi-Point Structural Monitoring Network for Old Building Assessment

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CSIEDS377	Implementation of an Embedded Real-Time Structural Deformation Alert System
CSIEDS378	Design and Development of an Embedded Bridge Expansion Joint Monitoring System
CSIEDS379	Development of an Embedded Foundation Settlement Monitoring System
CSIEDS380	Design of an Embedded Wind Load Monitoring System for Tall Structure Safety
CSIEDS381	Design and Development of an Embedded Smart Waste Bin Level Monitoring System
CSIEDS382	Design of an Embedded Automated Waste Segregation Control System
CSIEDS383	Development of an Embedded Waste Bin Overflow Alert System with Fill-Level Sensing
CSIEDS384	Design and Implementation of an Embedded Automated Waste Compactor Control System
CSIEDS385	Development of an Embedded Solar-Powered Smart Bin with Compaction Mechanism Control

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CSIEDS386	Design of an Embedded Waste Collection Route Optimization Alert System
CSIEDS387	Implementation of an Embedded Odor Detection and Ventilation Control System for Waste Bins
CSIEDS388	Design and Development of an Embedded RFID-Based Waste Bin Identification System
CSIEDS389	Development of an Embedded Public Bin Usage Monitoring System
CSIEDS390	Design of an Embedded Automated Recycling Sorting Control System Using Sensor Detection
CSIEDS391	Design and Development of an Embedded Air Quality Monitoring System with Multi-Gas Sensing
CSIEDS392	Design of an Embedded Industrial Emission Monitoring System with Threshold-Based Alerts
CSIEDS393	Development of an Embedded Noise Pollution Monitoring System with Sound Level Sensing
CSIEDS394	Design and Implementation of an Embedded Indoor Air Quality Control System

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CSIEDS395	Development of an Embedded Multi-Point Environmental Monitoring Network for Campus Deployment
CSIEDS396	Design of an Embedded Radiation Level Monitoring System for Safety Compliance
CSIEDS397	Implementation of an Embedded Dust and Particulate Matter Monitoring System
CSIEDS398	Design and Development of an Embedded Environmental Monitoring System for Greenhouse Gas Sensing
CSIEDS399	Development of an Embedded Multi-Sensor Environmental Data Logging Kiosk System
CSIEDS400	Design of an Embedded Environmental Monitoring System with Automated Alert Escalation
CSIEDS401	Design and Development of an Embedded RFID-Based Library Book Tracking System
CSIEDS402	Design of an Embedded Automated Inventory Counting System Using RFID Tag Scanning
CSIEDS403	Development of an Embedded Warehouse Shelf Monitoring System with Weight Sensor Feedback

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CSIEDS404	Design and Implementation of an Embedded Automated Stock Replenishment Alert System
CSIEDS405	Development of an Embedded Barcode-Based Inventory Management Hardware System
CSIEDS406	Design of an Embedded Smart Shelf System for Real-Time Product Availability Tracking
CSIEDS407	Implementation of an Embedded RFID Gate System for Anti-Theft Library Book Monitoring
CSIEDS408	Design and Development of an Embedded Automated Inventory Sorting Conveyor System
CSIEDS409	Development of an Embedded Cold Storage Inventory Monitoring System with Temperature Logging
CSIEDS410	Design of an Embedded Automated Book Return and Sorting System for Libraries
CSIEDS411	Design and Development of an Embedded Biometric Attendance System with Local Data Storage
CSIEDS412	Design of an Embedded RFID-Based Classroom Attendance Logging System

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CSIEDS413	Development of an Embedded Fingerprint-Based Employee Attendance and Access System
CSIEDS414	Design and Implementation of an Embedded Multi-Terminal Attendance Synchronization System
CSIEDS415	Development of an Embedded Attendance System with Real-Time Display Board Integration
CSIEDS416	Design of an Embedded Access-Linked Attendance System for Restricted Laboratory Entry
CSIEDS417	Implementation of an Embedded Attendance System with Automatic Late-Entry Flagging
CSIEDS418	Design and Development of an Embedded Visitor Attendance Logging System with Badge Printing Trigger
CSIEDS419	Development of an Embedded Attendance System with Battery Backup for Power-Outage Resilience
CSIEDS420	Design of an Embedded Multi-Shift Attendance Tracking System for Industrial Workers
CSIEDS421	Design and Development of an Embedded 4-DOF Robotic Arm Control System with Inverse Kinematics

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CSIEDS422	Design of an Embedded Robotic Arm Teach-and-Playback Control System
CSIEDS423	Development of an Embedded Robotic Arm Control System with Joystick-Based Manual Override
CSIEDS424	Design and Implementation of an Embedded Robotic Arm Force-Sensing Gripper Control System
CSIEDS425	Development of an Embedded Robotic Arm Pick-and-Sort Control System Using Position Sensing
CSIEDS426	Design of an Embedded Robotic Arm Control System with Multi-Servo Synchronized Motion
CSIEDS427	Implementation of an Embedded Robotic Arm Safety Limit Switch Control System
CSIEDS428	Design and Development of an Embedded Robotic Arm Control System for Welding Path Tracing
CSIEDS429	Development of an Embedded Robotic Arm Calibration System Using Encoder Feedback
CSIEDS430	Design of an Embedded Dual-Arm Coordinated Robotic Control System

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CSIEDS431	Design and Development of an Embedded Line-Following Autonomous Ground Vehicle with PID Control
CSIEDS432	Design of an Embedded Wall-Following Autonomous Navigation Vehicle System
CSIEDS433	Development of an Embedded GPS Waypoint-Based Autonomous Ground Vehicle Navigation System
CSIEDS434	Design and Implementation of an Embedded Obstacle-Avoidance Autonomous Vehicle Using Ultrasonic Mapping
CSIEDS435	Development of an Embedded Autonomous Vehicle Speed Control System Using Encoder Feedback
CSIEDS436	Design of an Embedded Autonomous Delivery Cart Control System for Indoor Navigation
CSIEDS437	Implementation of an Embedded Autonomous Vehicle Steering Control System Using PID Correction
CSIEDS438	Design and Development of an Embedded Path-Planning Control System for Autonomous Ground Vehicles
CSIEDS439	Development of an Embedded Autonomous Vehicle Emergency Stop System Using Multi-Sensor Fusion

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CSIEDS440	Design of an Embedded Autonomous Lawn Mower Navigation and Boundary Detection System
CSIEDS441	Design and Development of an Embedded Inductive Wireless Power Transfer System for Sensor Charging
CSIEDS442	Design of an Embedded Resonant Wireless Power Transfer System for Low-Power Device Charging
CSIEDS443	Development of an Embedded Wireless Charging Alignment Detection System
CSIEDS444	Design and Implementation of an Embedded Wireless Power Transfer Control System for EV Charging Prototypes
CSIEDS445	Development of an Embedded Wireless Power Transmission Efficiency Monitoring System
CSIEDS446	Design of an Embedded Multi-Coil Wireless Power Transfer System for Extended Range Charging
CSIEDS447	Implementation of an Embedded Wireless Power Transfer System with Foreign Object Detection
CSIEDS448	Design and Development of an Embedded Wireless Charging Pad Control System for Wearable Devices

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CSIEDS449	Development of an Embedded Wireless Power Transfer System with Adaptive Frequency Tuning
CSIEDS450	Design of an Embedded Wireless Power Transfer-Based Sensor Node Charging Station
CSIEDS451	Design and Development of an Embedded Real-Time Power Consumption Monitoring System
CSIEDS452	Design of an Embedded Automated Load Shedding Control System for Peak Demand Management
CSIEDS453	Development of an Embedded Multi-Circuit Energy Metering System for Sub-Metering Applications
CSIEDS454	Design and Implementation of an Embedded Power Factor Correction Monitoring and Control System
CSIEDS455	Development of an Embedded Appliance-Level Energy Monitoring System with Individual Load Tracking
CSIEDS456	Design of an Embedded Demand-Response Load Control System for Residential Applications
CSIEDS457	Implementation of an Embedded Energy Consumption Alert System with Threshold-Based Notification

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CSIEDS458	Design and Development of an Embedded Priority-Based Load Management Controller for Backup Power
CSIEDS459	Development of an Embedded Harmonics Monitoring System for Power Quality Assessment
CSIEDS460	Design of an Embedded Automatic Power Factor Correction Capacitor Bank Switching System
CSIEDS461	Design and Development of an Embedded GPS-Based Vehicle Tracking System with Local Logging
CSIEDS462	Design of an Embedded Fleet Vehicle Speed and Route Monitoring System
CSIEDS463	Development of an Embedded Geofencing Alert System for Vehicle Boundary Monitoring
CSIEDS464	Design and Implementation of an Embedded Vehicle Odometer and Trip Logging System
CSIEDS465	Development of an Embedded Anti-Theft GPS Tracking System with Engine Immobilization Control
CSIEDS466	Design of an Embedded School Bus Tracking System with Parent Alert Notification Hardware

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CSIEDS467	Implementation of an Embedded Fuel Level Monitoring System Integrated with Vehicle Tracking
CSIEDS468	Design and Development of an Embedded Vehicle Idle-Time Monitoring System for Fuel Efficiency
CSIEDS469	Development of an Embedded Fleet Driver Behavior Monitoring System Using Accelerometer Data
CSIEDS470	Design of an Embedded Vehicle Tracking System with Emergency SOS Button Integration
CSIEDS471	Design and Development of an Embedded Multi-Parameter Vital Sign Monitoring Device
CSIEDS472	Design of an Embedded Portable Glucose Level Monitoring Interface Device
CSIEDS473	Development of an Embedded Respiratory Rate Monitoring Device with Alert Threshold
CSIEDS474	Design and Implementation of an Embedded Skin Temperature and Sweat Monitoring Device
CSIEDS475	Development of an Embedded Continuous Heart Rate Variability Monitoring Device

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CSIEDS476	Design of an Embedded Elderly Health Monitoring Device with Emergency Alert Button
CSIEDS477	Implementation of an Embedded Blood Oxygen Saturation Monitoring Device with Local Display
CSIEDS478	Design and Development of an Embedded Multi-Sensor Health Kiosk for Basic Vital Screening
CSIEDS479	Development of an Embedded Sleep Apnea Monitoring Device Using Breathing Pattern Sensors
CSIEDS480	Design of an Embedded Rehabilitation Progress Monitoring Device Using Motion Sensors
CSIEDS481	Design and Development of an Embedded Vibration-Based Machine Condition Monitoring System
CSIEDS482	Design of an Embedded Motor Bearing Fault Detection System Using Vibration Analysis
CSIEDS483	Development of an Embedded Machine Runtime and Downtime Logging System
CSIEDS484	Design and Implementation of an Embedded Predictive Maintenance Alert System Using Sensor Thresholds

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CSIEDS485	Development of an Embedded Temperature-Based Machine Health Monitoring System
CSIEDS486	Design of an Embedded Multi-Machine Monitoring Network for Factory Floor Supervision
CSIEDS487	Implementation of an Embedded Machine Overload Protection and Shutdown System
CSIEDS488	Design and Development of an Embedded Machine Cycle Counting and Productivity Monitoring System
CSIEDS489	Development of an Embedded Lubrication Level Monitoring System for Industrial Machinery
CSIEDS490	Design of an Embedded Machine Alignment Monitoring System Using Multi-Axis Sensors
CSIEDS491	Design and Development of an Embedded Smart Classroom Automation System with Occupancy-Based Control
CSIEDS492	Design of an Embedded Laboratory Equipment Access and Usage Logging System
CSIEDS493	Development of an Embedded Campus-Wide Bell and Announcement Scheduling System

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CSIEDS494	Design and Implementation of an Embedded Hostel Room Automation System with Access Control
CSIEDS495	Development of an Embedded Cafeteria Token and Queue Management Hardware System
CSIEDS496	Design of an Embedded Campus Bus Tracking and Arrival Display System
CSIEDS497	Implementation of an Embedded Auditorium Seat Occupancy Detection and Display System
CSIEDS498	Design and Development of an Embedded Laboratory Safety Interlock System for Equipment Protection
CSIEDS499	Development of an Embedded Campus Water Cooler Usage and Maintenance Alert System
CSIEDS500	Design of an Embedded Sports Facility Access and Booking Control Hardware System

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