

Embedded & IoT Projects – AR, VR, BCI, ARM7, Raspberry Pi, Lidar, LoRa, RoS, Jetson Nano, Robotics, Kinect

Project Code	Project Titles	Technology
PANEMB001	A Wearable Brain-Computer Interface Instrument for Augmented Reality-based Inspection in Industry	AR
PANEMB002	Doodle-Based Authentication Technique Using Augmented Reality	AR& BCI
PANEMB003	Control and Monitoring of IoT Devices Using Mixed Reality Developed by Unity Engine	AR & IoT
PANEMB004	An Augmented Reality Application for Personalized Shopping	AR
PANEMB005	Augmented Shopping Experience for Sustainable Consumption using the Internet of Things	AR & IoT
PANEMB006	Virtual Reality based Joint Attention Task Platform for Children with Autism	AR
PANEMB007	ARKLib: An Augmented Reality Library for Applications using Kinect	AR & Kinect
PANEMB008	Visual SLAM with BoPLW Pairs using Egocentric Stereo Camera for Wearable-assisted Substation Inspection	AR & 3D vision
PANEMB009	Towards BCI-based Interfaces for Augmented Reality: Feasibility, Design and Evaluation	AR & BCI
PANEMB010	Kinect-Based Virtual Try-on System: A Case Study	AR & Kinect
PANEMB011	The Concept of a Smart Home: Security, Additional Features and Augmented Reality	AR
PANEMB012	Virtual reality meets IoT Through Telepresence	AR
PANEMB013	Algorithm based land survey robot using Lidar	AR
PANEMB014	Modeling of the VR integrated Pollution Control Robot using Lidar	VR & Robotics
PANEMB015	Virtual 3D designs for building interior	Robotics
PANEMB016	Assistive mobile robot for industrial and academic applications	Embedded & Lidar
PANEMB017	A Robotic System for Elderly Care and Monitoring using Human Robot Interaction	Embedded & Lidar
PANEMB018	Mobile Robot Swarm Navigation and Communication Using LoRa WAN	Robotics
PANEMB019	Gradient-based Routing Protocol for Modular Robotic Systems	Robotics

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PANEMB020	Sensory-Glove-Based Human Machine Interface for Augmented Reality (AR) Applications	Robotics
PANEMB021	Estimating Road Surface and Gradient using Internal Sensors for Robot Assist Walker	Robotics
PANEMB022	Using Assistive Robotics for Aphasia Rehabilitation	AR
PANEMB023	The Design of AR-based Virtual Educational Robotics Learning System	Robotics
PANEMB024	ROS-Based Multi-Robot System Simulator	Robotics
PANEMB025	Cloud Based Indoor Navigation for ROS-enabled Automated Guided Vehicles	AR & Robotics
PANEMB026	Sensory Integration of a Mobile Robot Using the Embedded System Odroid-XU4 and ROS	RoS & Robotics
PANEMB027	A Self-Driving Car Architecture in ROS2	RoS & Robotics
PANEMB028	TurtleUI: A Generic Graphical User Interface for Robot Control	RoS & Robotics
PANEMB029	An Approach based on a Robotics Operation System for the Implementation of Integrated Intelligent House Services System	RoS & Robotics
PANEMB030	Toward Reliable and Scalable Internet of Vehicles: Performance Analysis and Resource Management	Robotics
PANEMB031	Andruino R2: Low cost ROS cloud robot	RoS & Robotics
PANEMB032	Cooperative Computing in Integrated Blockchain-Based Internet of Things	IoT
PANEMB033	QoS-Driven Optimized Design-Based Integrated Visible Light Communication and Positioning for Indoor IoT Networks	RoS & Robotics
PANEMB034	A LoRaWAN based Open Source IOT Solution for Monitoring Rural Electrification Policy	IoT & Block chain
PANEMB035	Random Seed Generation For IoT Key Generation and Key Management System Using Block chain	IoT
PANEMB036	IoT Botnet Detection Mechanism Based on UDP Protocol	IoT & LoRa
PANEMB037	A Fully Integrated Maximum Power Tracking Combiner for Energy Harvesting IoT Applications	IoT & Block chain
PANEMB038	Perception Assistance for the Visually Impaired Through Smart Objects: Concept, Implementation, and Experiment Scenario	IoT

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PANEMB039	Sustainable Vehicle-Assisted Edge Computing for Big Data Migration in Smart Cities	IoT
PANEMB040	Construction of Autonomous Driving Maps employing Lidar Odometry	Embedded
PANEMB041	Feature Extraction Method of Indoor Structured Environment Based on Two-Dimensional Lidar	IoT & Big data
PANEMB042	An advanced object classification strategy using YOLO through camera and Lidar sensor fusion	RoS and Robotics
PANEMB043	Design and Implementation of Intelligent Patrol Robot for Secondary Equipment Based on Lidar Technology	Embedded & Lidar
PANEMB044	Mobile Robot Swarm Navigation and Communication Using LoRa WAN	Embedded & Lidar
PANEMB045	Design and Implementation of Anomaly Condition Detection in Agricultural IoT Platform System	RoS & Robotics
PANEMB046	Reading Eye For The Blind: a real time handwritten text reading assistant using Jetson nano	Robotics & LoRa
PANEMB047	Long-Range Indoor Navigation With PRM-RL	IoT & LoRa
PANEMB048	Reflective-AR Display: An Interaction Methodology for Virtual-to-Real Alignment in Medical Robotics	Embedded & NVidia
PANEMB049	High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning	RoS
PANEMB050	Force-based Feedback for Haptic Device of Mobile Assembly Robot	RoS
PANEMB051	Biometric System Based Electronic Voting Machine Using Arm9 Microcontroller	ARM
PANEMB052	Security and Privacy Solution for I-RFID based Smart Infrastructure Health Monitoring	RFid
PANEMB053	Innovative complete solution for health safety of children unintentionally forgotten in a car: a smart arduino-based system with user app for remote control	Embedded
PANEMB054	A Robust RGB-D SLAM System with Points and Lines for Low Texture Indoor Environments	Robotics
PANEMB055	Deploy Indoor 2D Laser SLAM on a Raspberry Pi-based Mobile Robot	Robotics
PANEMB056	Noncontact RF Vital Sign Sensor for Continuous Monitoring of Driver Status	RF
PANEMB057	Smart School Bus: Ensuring Safety On The Road For School Going Children	IoT

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PANEMB058	Design And Implementation Of Portable Smart Wireless Pedestrian Crossing Control System	RF
PANEMB059	ROS Reality: A Virtual Reality Framework Using Consumer-Grade Hardware for ROS-Enabled Robots	VR
PANEMB060	A Lightweight Mutual Authentication Protocol For V2v Communication In Internet Of Vehicles	IOT
PANEMB061	Gesture Controlled Wireless Agricultural Weeding Robot	Robotics
PANEMB062	Indoor 3D Localization with Low-Cost LiFi Components	LiFi
PANEMB063	SLAM Algorithm Analysis of Mobile Robot Based on Lidar	Lidar
PANEMB064	A Novel Attribute-Based Access Control Scheme Using Block chain for IoT	Block chain
PANEMB065	An IOT-oriented Privacy-Preserving Publish/Subscribe Model Over Block chain	IOT
PANEMB066	Fault Detection in a Swarm of Physical Robots Based on Behavioral Outlier Detection	Robotics
PANEMB067	An in-pipe leak detection robot with a neural-network based leak verification system	Robotics
PANEMB068	IoT-Fog based Healthcare Framework to Identify and Control Hypertension Attack	IOT
PANEMB069	A Lightweight Payment Verification Protocol for Block chain Transactions on IoT Devices	Block chain
PANEMB070	Intelligent Embedded Vision For Summarization Of Multiview Videos In IIoT	IOT
PANEMB071	Shop Virtual Product Tagging Using Augmented Reality	AR
PANEMB072	ZigBee and LoRa based Wireless Sensors for Smart Environment and IoT Applications	LoRa
PANEMB073	Efficient Image Transmission Using LoRa Technology In Agricultural Monitoring IoT Systems	LoRa
PANEMB074	Wearable Brain-Computer Interface instrumentation for robot-based rehabilitation by Augmented Reality	AR & BCI
PANEMB075	Reading Eye For The Blind	Jetson nano
PANEMB076	Real-time Human Pose Estimation on Jetson Nano	Jetson nano

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PANEMB077	Action AI: Custom Tracking & Multi-Person Activity Recognition	Jetson nano
PANEMB078	Robaka 2: Hover board Turned Self-Driving Robot with ROS	Jetson nano
PANEMB079	Turtle UI A Generic Graphical User Interface for Robot Control	Robotics
PANEMB080	Real Time Vehicle Theft Identity and Control System Based on ARM 9	ARM
PANEMB081	ARM Cortex Based Automatic Number Plate Recognition System	ARM
PANEMB082	ARM Cortex M3 Based Collision Detection System	ARM
PANEMB083	Smart Home Design Based on Zigbee Wireless Sensor Network and ARM Controller	ARM
PANEMB084	Theft Control, Accident Detection and Vehicle Positioning System Using Arm 7	ARM
PANEMB085	RFID based Indoor Antenna Localization System using Passive Tag and variable RF-Attenuation	RFid
PANEMB086	Transmitting patient vitals over a reliable ZigBee mesh network	Zigbee
PANEMB087	RF based War Field Spying Robot with Night Vision Wireless Camera	Robotics
PANEMB088	RF Based Bus Recognition System for Visually Impaired Persons	RF
PANEMB089	Design of Indoor Pipeline Inspection Robot using Zigbee	Zigbee
PANEMB090	Analysis of RFID Application for U-healthcare System in Internet of Things	IoT
PANEMB091	Open cv vehicle detection ,tracking, and speed estimation using raspberry pi	OpenCV
PANEMB092	Detecting the liveness detection to avoid spoofing	OpenCV
PANEMB093	drowsiness and yawn detection using open cv in raspberry pi	OpenCV
PANEMB094	Food calorie detection using CNN in raspberry pi	OpenCV
PANEMB095	Vehicle wrong route identification	OpenCV

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PANEMB096	Detecting covid-19 in x-ray image with Keras using Deep Learning	OpenCV
PANEMB097	Smart disinfection and sanitization tunnel for COVID-19	OpenCV
PANEMB098	Face to voice for visually impaired using raspberry pi	OpenCV
PANEMB099	Smart assistance for blind people	OpenCV
PANEMB100	Blockchain-Enabled Secure Energy Trading With Verifiable Fairness In Industrial Internet Of Things	Blockchain and IoT
PANEMB101	Real-Time Apple Detection System Using Embedded Systems with Hardware Accelerators: An Edge Ai Application	OpenCV and AI
PANEMB102	Face Detection and Tracking in Python on Ultra96-V2	OpenCV
PANEMB103	Facial Mask Detection over REST [HEPHAISTOS]	OpenCV
PANEMB104	TouchFree v2: Contactless Temperature and Mask Checkup	OpenCV
PANEMB105	Counting Objects In Movement Using Raspberry PI & OpenCV	OpenCV & Raspberry pi
PANEMB106	Spell the alphabets based on lip moment in raspberry pi	OpenCV & Raspberry pi
PANEMB107	Google pi	IOT
PANEMB108	People counting in shopping mall using camera	OpenCV
PANEMB109	Explosive element carrying person detection in malls and railway stations	OpenCV
PANEMB110	Fire detection using open cv in raspberry pi	OpenCV & IOT
PANEMB111	Helmet detection and engine lock system using OpenCV	OpenCV & IOT
PANEMB112	Test event generation for a fall-detection IoT system	OpenCV
PANEMB113	Online examination using raspberry pi	OpenCV
PANEMB114	Real-Time Image Processing Method Using Raspberry Pi for a Car Model	OpenCV

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PANEMB115	Advanced Air Quality Monitoring System Using Raspberry Pi	Raspberry Pi
PANEMB116	Digital Outing System Using RFID And Raspberry Pi With MQTT Protocol	RFID
PANEMB117	Arduino-GSM Interfaced Secure and Smart Cabin for Smart Office	GSM
PANEMB118	IoT Accelerated Wi-Fi Bot controlled via Node MCU	NODE MCU
PANEMB119	Classroom Automation Using RSSI	OpenCV and IOT
PANEMB120	Design and Realization of Node MCU Module Based on NB-IoT for General IoT Purpose	NODE MCU
PANEMB121	IOT based Electrical Device Surveillance and Control System	IOT
PANEMB122	Coal mine monitoring using loRa and WSN Technology	IOT & LoRa
PANEMB123	Internet of Thing (IOT) based Advance Insurance For Sensitive Food Products Transport Vehicle Using GPS Module	IOT
PANEMB124	Development and Analysis of Pothole detection and Alert based on Nodemcu	Node MCU
PANEMB125	Smart energy meter using IOT and ML	IOT,ML
PANEMB126	Design of the Facility Vegetable Environment Monitor System of Greenhouse Based on Internet of Things	IOT
PANEMB127	Proposed Design and Modeling of Smart Energy Dashboard System by Implementing IoT (Internet of Things) Based on Mobile Devices	IOT
PANEMB128	Energy Efficient & Fully Autonomous Residential Power Management Solution	IOT
PANEMB129	Straw Mushroom Co2&Co Condition Control	IOT
PANEMB130	LoRa-based Communication Technology for Overhead Line Internet of Things	IOT & LoRa
PANEMB131	Car parking using number plate recognition	OpenCV & IoT
PANEMB132	Teaching IoT Using Raspberry Pi Based RC-Car	IoT
PANEMB133	Raspberry pi based Intelligent Reader for Visually Impaired Persons	OpenCV

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PANEMB134	Indoor Intrusion Detection and Filtering System Using Raspberry Pi	IoT & OpenCV
PANEMB135	DIY - Smart Home Surveillance Using AWS Cloud and Raspberry	IoT& OpenCV
PANEMB136	Design of WSN nodes and network performance analysis in a tea plantation	WSN
PANEMB137	Sensing Harmful Gases in Industries Using IOT and WSN	IOT & WSN
PANEMB138	LEACH Protocol Enhancement for Increasing WSN Lifetime	WSN
PANEMB139	Raspberry Pi as Visual Sensor Nodes in Precision Agriculture	IoT
PANEMB140	A Three-Port Zero-Power RFID Sensor Architecture for IoT Applications	RFID
PANEMB141	RiceTalk: Rice Blast Detection Using Internet of Things and Artificial Intelligence Technologies	IoT & AI
PANEMB142	Vision Based Social Distancing Monitor	OpenCV
PANEMB143	Intelligent Embedded Vision for Summarization of Multi-View Videos in IIoT	IOT
PANEMB144	Secure and Lightweight Authentication Scheme for Smart Metering Infrastructure in Smart Grid	IOT
PANEMB145	Safe local navigation using Time of Flight Lidar	Embedded
PANEMB146	Speed and Separation Monitoring using On-Robot Time-of-Flight Laser-ranging Sensor Arrays	Robotics & Lidar
PANEMB147	On Self Driving Cars: An LED Time of Flight (ToF) based Detection and Ranging using various Unipolar Optical CDMA Codes	Robotics & Lidar
PANEMB148	Augmented Reality Based Industrial Monitoring System For Instrumentation	AR & IoT
PANEMB149	Augmented Reality based interior designing application	AR
PANEMB150	Augmented Shopping Experience for Sustainable Consumption using the Internet of Things	AR
PANEMB151	A Proposal of smart hospital management using hybrid Cloud, IoT, ML, and AI	IOT + ML
PANEMB152	Screen Intelligence Engine: ML based method for predicting IoT devices using screen contents	IOT + ML / ANY CONTROLLER

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PANEMB153	Transforming Business Decision Making with Internet of Things (IoT) and Machine Learning (ML)	IOT + ML
PANEMB154	An IoT based commotion contamination with android APP	ANDROID + IOT
PANEMB155	Artificial natural product ripping framework using IOT and ML	IOT + ML + ANDROID
PANEMB156	Artificial intelligence Traffic Control System Based on Deep stream and IoT Using NVIDIA Jetson Nano	AI +JETSON NANO
PANEMB157	Recognition of Drowsiness from Facial Images in Real-Time Video Media utilizing Nvidia Jetson Nano	OPEN CV + JETSON NANO
PANEMB158	Wearable Brain-Computer Interface Instrument for Augmented Reality-based Inspection in Industry	BRAIN SENSOR
PANEMB159	Augmented Shopping Experience for Sustainable Consumption utilizing the Internet of Things	AUGMENTED REALITY
PANEMB160	Towards BCI-based Interfaces for Augmented Reality: Feasibility, Design and Evaluation	BRAIN SENSOR
PANEMB161	Demonstrating of the VR incorporated Pollution Control Robot utilizing Lidar	LIDAR
PANEMB162	Assistive portable robot for mechanical and scholarly applications	ROBOTICS + IOT
PANEMB163	A Robotic System for Elderly Care and Monitoring utilizing Human Robot Interaction	ROBOTICS +IOT + GPS
PANEMB164	Tactile Glove-Based Human Machine Interface for Augmented Reality (AR) Applications	AR
PANEMB165	Assessing Road Surface and Gradient utilizing Internal Sensors for Robot Assist Walker	GOOGLE MAPS + IOT
PANEMB166	A Self-Driving Car Architecture in ROS2	ROS
PANEMB167	A LoRa WAN based Open Source IOT Solution for Monitoring Rural Charge Policy	LORA
PANEMB168	A LoRa WAN based Open Source IOT Solution for Monitoring Rural Electrification Policy	LORA
PANEMB169	A high level item order system utilizing YOLO through camera and Lidar sensor combination	LIDAR
PANEMB170	Plan and Implementation of Intelligent Patrol Robot for Secondary Equipment Based on Lidar Technology	LIDAR
PANEMB171	Perusing Eye For The Blind: a constant written by hand text perusing collaborator utilizing Jetson nano	VR + OPENCV

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PANEMB172	High-Accuracy Robot Indoor Localization Scheme Based on Robot Operating System Using Visible Light Positioning	ROS
PANEMB173	Biometric System Based Electronic Voting Machine	BIOMETRIC
PANEMB174	A Robust RGB-D SLAM System with Points and Lines for Low Texture Indoor Environments	SLAM ROBOT
PANEMB175	Noncontact RF Vital Sign Sensor for Continuous Monitoring of Driver Status	RF Communication
PANEMB176	School Bus: Ensuring Safety On The Road For School Going Children	RFID + GPS
PANEMB177	Plan And Implementation Of Portable Smart Wireless Pedestrian Crossing Control System	IOT
PANEMB178	A Lightweight Mutual Authentication Protocol For V2v Communication In Internet Of Vehicles	V2V Communication
PANEMB179	IoT-Fog based Healthcare Framework to Identify and Control Hypertension Attack	FOG CLOUD
PANEMB180	Shop Virtual Product Tagging Using Augmented Reality	AR
PANEMB181	Continuous Human Pose Estimation on Jetson Nano	Jetson Nano + OPENCV
PANEMB182	Hoverboard Turned Self-Driving Robot with ROS	ROS
PANEMB183	ARM Based Collision Detection System	ARM
PANEMB184	Robbery Control, Accident Detection and Vehicle Positioning System Using Arm 7	ARM
PANEMB185	RF Based Bus Recognition System for Visually Impaired Persons	RFID + GPS + IOT
PANEMB186	Plan and Development of IoT based Robotic Arm by utilizing Arduino	ROBOTIC ARM
PANEMB187	Remote Digital Control and Synchronization of Master-Slave Multiple Motors Using ARM Microcontroller	ARM
PANEMB188	Sensors Data Acquisition System using ARM Microcontroller	ARM
PANEMB189	Advanced mobile phone OPERATED MULTIPURPOSE AGRICULTURAL ROBOTIC VEHICLE – AGRIBOT	AGRI ROBOT