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ACADEMIC YEAR	NO OF PAPERS PUBLISHED IN NATIONAL CONFERENCE
2023-2024	01
2022-2023	NIL
2021-2022	01
2020-2021	NIL
2019-2020	14
2018-2019	07

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Academic Year 2023-2024

Number of papers published in National conference during the year

S. NO	Title of paper	Name of the author/s	Department of the teacher	Name of Conference	Year of publication	Conference Number
1	COLLEGE STUDENTS ADMISSION ANALYSIS USING ML	Ms.Pavithra V Ms. Agnes J	CSE	9th National Conference on Artificial Intelligence Frontiers:Shaping the Future of Technology	2024	NCAIF'24

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NCAIF'24

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. Ms.Pavithra V

of T.J.S ENGINEERING COLLEGE has presented a

paper titled COLLEGE STUDENTS ADMISSION ANALYSIS USING ML

in the **9th National Conference on Artificial Intelligence Frontiers: Shaping the Future of Technology** held on 12th March, 2024.

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Academic Year 2021-2022

Number of papers published in National conference during the year

S. NO	Title of paper	Name of the author/s	Department of the teacher	Name of Conference	Year of publication	Conference Number
1	SENSOR RECHARGING FRAMEWORK WITH SECURED POCKET SCHEDULING FOR NAMED DATA NETWORKING BASED	Ms.Agnes.J	CSE	NCRET	2022	NCRET'22

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GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY

NATIONAL CONFERENCE ON RECENT TRENDS IN ENGINEERING AND TECHNOLOGY(NCRTET'2022)

CERTIFICATE

This is to certify that Dr./Mr./Ms. AGNES.J of TJS ENGINEERING COLLEGE has presented a paper titled SENSOR RECHARGING FRAMEWORK WITH SECURED PACKET SCHEDULING FOR NAMED DATA NETWORKING BASED.

in the **"National Conference on Recent Trends in Engineering and Technology"** organized by **Gojan School of Business and Technology** on **MAY 28 2022**

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Academic Year 2019-2020

Number of Papers Published in National Conference/Symposium during the year

S.NO	Title of Paper	Name of the Author/s	Department of the Teacher	Name of Conference	Year of Publication	Conference Number
1	An IOT based Bank Locker Security System	Mr.J.Thirumalai	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
2	Last Mile Delivery by Drone	Dr. S. Velmurugan/ Prof & Head,K Gayathri, P. Praseetha, D. Priyadarshini, M. Chithra	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
3	An Enhanced Privacy Preserving Techniques for Asynchronous Streaming Data Mining in Distributed Environment	Dr. S. Velmurugan/ Prof & Head	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
4	Smart Parking Management System and Traffic Reduction in Parking Slots Using IoT	Dr. M. Sathyapriya/Prof, S. Jansirani, G. Jeevanasaipriya, L. Yuvashree, D. Ganga	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
5	Smart Stretcher and Integrated Medical Intelligence Systems for Unconscious Person	Dr. M. Sathyapriya/ Prof, G. Lokesh Kumar, B. Surendra Kumar., Venkateswarlu Katta	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
6	An RFID based Smart LogisticsManagementSystem forMonitoring Perishable GoodsUsing Internet of Things	Ms. D. Mythily/Assoc. Prof,A. Ajin Anto, C. Arun Kumar, R.S. Naveen Kumar, B. Vignesh	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
7	IOT based Fisherman Border Alert and Weather Alert Security System	Ms. D. Mythily/ Assoc. Prof,R. Helan Renila, T. Keerthana, S. Hamaravathi, P. Preethi	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
8	Advanced Women Safety System using IBEACON Technology	Mrs. C. Shalini, AP, D. Shanthi, S. Kavitha, P. V.	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*

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8	Advanced Women Safety System using IBEACON Technology	Mrs. C. Shalini, AP, D. Shanthi, S. Kavitha, P. V. Keerthi, D. Sharmila	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
9	Medical Prescription Writing Robot	Ms. G. Bhavani/AP V.M. Bargav, B. Praveen Kumar, H. Shriram., B. Sathyaprabhu	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
10	Design of an Internet of Things Approach for Industrial Pollution Monitoring	Mr. V. Saravana Perumal/AP, P. Sathya, E. Rajesh Kumar, A. Mohamed Parvez	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
11	An IOT based Smart Irrigation System using Soil Moisture and Weather Prediction	Dr. S. Velmurugan/ Prof & Head	ECE	ECLECTIC – 2020	2020	*IJERT, Volume 8 – Issue 07*
12	Smart no filter Replacement air-purifier helmet	Mrs.V.Geetha,AP	EEE	NCPES-2020	2020	*NCPES-2020*
13	A Non invasive Remote health monitoring system using visible light communication	Mrs.M.Shunmuga Sankari,HOD/EEE	EEE	NCPES-2020	2020	*NCPES-2020*
14	Design and Implementation of IoT Based substation automation for the unit service switchgear in a thermal power station.	Mrs.M.Shunmuga Sankari,HOD/EEE	EEE	NCPES-2020	2020	*NCPES-2020*

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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **J. Thirumalai** has presented paper entitled **An IoT based Bank Locker Security System** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

M. Sathya

Coordinator

HOD/ECE

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This is to certify that Dr./Mr./Ms. **S. Velmurugan** has presented paper entitled **Last Mile Delivery by Drone** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

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This is to certify that Dr./Mr./Ms. **S. Velmurugan** has presented paper entitled **An Enhanced Privacy Preserving Techniques for Asynchronous Streaming Data Mining in Distributed Environment** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **M. Sathyapriya** has presented paper entitled **Smart Parking Management System and Traffic Reduction in Parking Slots using IoT** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **D. Mythily** has presented paper entitled **An RFID based Smart Logistics Management System for Monitoring Perishable Goods using Internet of Things** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

M. Sathya
Coordinator

S. Vasu
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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **C. Shalini** has presented paper entitled **Advanced Women Safety System using IBEACON Technology** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

M. Sathya
Coordinator

S. Vasu
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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **G. Bhavani** has presented paper entitled **Medical Prescription Writing Robot** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **V. Saravana Perumal** has presented paper entitled **Design of an Internet of Things Approach for Industrial Pollution Monitoring** in 2020 10th National Level Technical Symposium/ Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

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10th National Level Technical Symposium/Conference

Certificate of Participation

This is to certify that Dr./Mr./Ms. **S. Velmurugan** has presented paper entitled **An IOT based Smart Irrigation System using Soil Moisture and Weather Prediction** in 2020 10th National Level Technical Symposium/Conference, organized by Department of Electronics and Communication Engineering at TJS Engineering College, Chennai, India held on 3rd March, 2020.

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PERUMALPATTU, CHENNAI - 602024

NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS (NCPES - 2K20)

CERTIFICATE

This is to certify that Dr./Mr./Ms. V. GEETHA

of T.J.S. ENGINEERING COLLEGE

has presented a paper titled Smart No filter replacement air purifier Helmet

in the National Conference on "Power and Energy Systems" (NCPES - 2K20) organized by Department of Electrical and Electronics Engineering held on 10 March 2020.

Dr.P.Saravanan
Convenor

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Dr. S. R. Kannan
Principal

SRIRAM ENGINEERING COLLEGE

PERUMALPATTU, CHENNAI - 602024

NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS (NCPES - 2K20)

CERTIFICATE

This is to certify that Dr./Mr./Ms. M. SHUNMUGA SANKARI
..... of T.J.S. ENGINEERING COLLEGE
has presented a paper titled A non invasive remote health
monitoring system using visible light communication
.....in the National Conference on "Power and Energy Systems" (NCPES - 2K20) organized by Department of Electrical and Electronics Engineering held on 10 March 2020.

Dr.P.Saravanan
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PERUMALPATTU, CHENNAI - 602024

NATIONAL CONFERENCE ON POWER AND ENERGY SYSTEMS (NCPES - 2K20)

CERTIFICATE

This is to certify that Dr./Mr./Ms. M. SHANMUGA SHANKARI of T.J.S. COLLEGE OF ENGINEERING has presented a paper titled Design and implementation of IoT Based substation automation for the unit service switchgear of a thermal power station in the National Conference on "Power and Energy Systems" (NCPES - 2K20) organized by Department of Electrical and Electronics Engineering held on 10 March 2020.

Dr.P.Saravanan
Convenor

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Academic Year 2018-2019

Number of Papers Published in National Conference/Symposium during the year

S.NO	Title of Paper	Name of the Author/s	Department of the Teacher	Name of Conference	Year of Publication	Conference Number
1	Trolley system using RFID	Ms. C. Shalini/AP, J. Blessy Jeba, S. Pooja, B.R. Sanjithaa Sree	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*
2	Magnetic Levitation Building Preventing from Earthquake	Ms. S.Jeya Anusuya/ASP,	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*
3	Boiler Critical Parameters Control System	Ms. M. Mary Grace Neela/AP, P. Priyanka, P. Gomathi, R. Tamizh Vani	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*
4	Simulation Analysis of 2D Filtering by Using Radix-3 Multiplier Less stream processor	Ms. M. Mary Grace Neela/AP, N. Ezhilarasi, S. Jeyaanusuya	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*
5	Missile Burst Prevention and Tracking System Using Image Processing in MATLAB	Mr.V. Saravana Perumal/AP, R. Naveenkumar, K. Pandiyan, M. Prakash	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*
6	Rail Robot - Unmanned Automatic Track Cleaning Robot	Ms. G. Bhavani/AP, V. Karthika, K. Kaviyasree, B.R. Manju	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*
7	Advanced Accident Detection Using NFC Technology	Ms. S.Jeya Anusuya/ASP,	ECE	*NCRTET'19*	2019	*IJIRSET, Volume 8 – Special Issue 2*

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Vol. 8, Special Issue 2, March 2019

Trolley System Using RFID Technology

Shalini.C[1], Blessy Jeba.J[2] , Pooja.S[2] , Sanjithaa Sree .BR[2]

Assistant Professor, Department of Electronics and Communication Engineering, T.J.S Engineering College, Peruvoyal, India[1]

Student, Department of Electronics and Communication Engineering, T.J.S Engineering College, Peruvoyal, India[2]

ABSTRACT: A shopping mall or complex is a place where people buy product/s for their regular use. The customers have to wait in long queues to get their products scanned using barcode scanner and get it billed. To get rid of this, we have proposed a new 'Smart Shopping Trolley using RFID (Radio Frequency Identification)'. This implementation is used to assist person while shopping and also to avoid standing in long queues and thus saving time. The smart shopping trolley would consist of a microcontroller, Android Device ,RFID Reader and an Electronic Display. The products in the shopping centers will have RFID tags to retrieve/access information about it. When a customer places a product in the smart trolley, the RFID Reader will read the Product ID and the information related to it will be stored in controller. There will be communication between android device, main server and billing system (gate system) via ZigBee module. The total amount of the products in the trolley will be calculated using android device and will be updated on server and the Central billing System.

KEYWORDS: RFID Reader, RFID tags, Central Billing System, Wireless ZigBee Module, Android, Security ,Central Server Database.

I. INDRODUCTION

Humans have always invented and developed a technology to support their needs ever since the beginning of mankind. The basic purpose of advancement in technology has been in minimizing tasks and making

II. LITERATURE SURVEY

Dr. Suryaprasad J in "A Novel Low-Cost Intelligent Shopping Cart" [1] proposed to develop a low-cost intelligent shopping aid that assists the customer to search and select products and inform the customer on any special deals available on the products as they move around in the shopping complex.
Instead of conducting the RFID observations at the level of individual carts, aisle-level scanning is performed. Satish Kamble in "Developing a Multitasking Shopping Trolley Based on RFID Technology" [4] proposed to develop a product to assist a person in everyday shopping in terms of reduced time spent while purchasing. The main aim of proposed system is to provide a technology oriented, low-cost, easily scalable, and rugged system for assisting shopping in person. MrP.Chandrasekar in "Smart Shopping Cart with Automatic billing System through RFID and ZigBee" [5] proposed to develop a shopping cart with a Product Identification Device (PID) which will contain a microcontroller, a LCD, an RFID reader, EEPROM, and ZigBee module. Purchasing product information will be read through a RFID reader on shopping cart, meanwhile
product information will be stored into EEPROM attached to it and this EEPROM data will be send to Central Billing System through ZigBee module. The central billing system gets the cart information and EEPROM data, it access the product database and calculates the total amount ofpurchasing for that particular cart.

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Vol. 8, Special Issue 2, March 2019

Magnetic Levitation Building Preventing from Earthquake

S. Jeya Anusuya, G.Pavithra Devi, E.R.Priyadarshini, S.Swathi

Associate Professor, Department of Electronics and Communication Engineering, T.J.S Engineering College, Peruvoyal, India

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ABSTRACT: Earthquakes are unprecedented natural calamities that can cause negative effects on both our properties and lives An earthquake (also known as a quake, tremor or temblor) is the shaking of the surface of the Earth, resulting from the sudden release of energy in the Earth's lithosphere that creates seismic waves. The earthquakes can wipe out many buildings in a same place with its effects on ground. The mankind has faced many challenges in its evolution. This little play of mother earth is also to make us smart to understand her. Our project deals with the magnetic levitation effect to save building at the times of earthquakes.

I. INTRODUCTION

EARTHQUAKES, which often cause serious casualties and property damage are considered major disasters since they can destroy buildings and greatly affect human lives and environments.

An earthquake causes random movements of the ground, in all possible directions emanating from the epicentre. It is always accompanied by a horizontal vibration of the ground. The vibration of the soil vibrates the structures that rest on the ground, developing forces of inertia in the structure. As the earthquake changes direction, it can cause stress reversal in the structural components, that is, tension changes to compression and vice versa. An earthquake can generate large stresses, which can lead to large deformations, cracks and drifts, making the structure is not functional and unusable. The social, structural and economic damages caused due to an earthquake can be vastly reduced by preparing for such a calamity since earthquakes are almost unpredictable. From the engineering point of view, to prevent loss of life and property damages due to earthquakes, buildings are to be designed as earthquake resistant structures. In conventional systems, seismic energy is dissipated using inelastic mechanism s like flexural and shear hinging of elements like beams, columns and walls, axial tension yielding, brace buckling etc.

A consensus has been reached that more than 90% of all earthquake casualties are caused by the collapse of buildings. Therefore, studies on the impact of earthquakes on buildings have continued; these studies have focused on topics such as earthquake risk assessment of buildings post-earthquake building damage assessment and collapse prevention of buildings.

At present, the structures and facilities in most countries, including China, are mostly composed of concrete since it boasts a wide range of composite materials, low cost, high compressive strength, fire resistance, resistance to weathering, and low maintenance cost. However, its tensile strength is poor and consequently cracks easily. Surface cracks on buildings represent the accumulation of damage during normal us e, but they are also external manifestations of a certain degree of danger. The characteristics of fractures reflect the current working and structural status of the building facility. That is, if the value of a structural fracture on a building exceeds the safety threshold, it will not only

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Boiler Critical Parameters Control

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ABSTRACT: Any form of pollution that can trace its immediate source to industrial practices is known as industrial pollution. Most of the pollution on the planet can be traced back to industries of some kind. In fact, the issue of industrial pollution has taken on grave importance for agencies trying to fight against environmental degradation. Countries facing sudden and rapid growth of such industries are finding it to be a serious problem which has to be brought under control immediately. Our project deals with measuring the industrial affected parameters and control

I. INTRODUCTION

Industrial pollution takes on many faces. It contaminates many sources of drinking water, releases unwanted toxins into the air and reduces the quality of soil all over the world. Major environmental disasters have been caused due to industrial mishaps, which have yet to be brought under control. Below are few of the causes of industrial pollution that have resulted in environment degradation. This project considers two aspects of pollution: Dust / Smoke and Salt content.

Air Pollution: Air pollution has led to a steep increase in various illnesses and it continues to affect us on a daily basis. With so many small, mid and large scale industries coming up, air pollution has taken toll on the health of the people and the environment.

Water Pollution: The effects of industrial pollution are far reaching and liable to affect the eco-system for many years tocome. Most industries require large amounts of water for their work. When involved in a series of processes, the water comes into contact with heavy metals, harmful chemicals, radioactive waste and even organic sludge.These are either dumped into open oceans or rivers. As a result, many of our water sources have high amount of industrial waste in them which seriously impacts the health of our eco-system. The same water is then used by farmers for irrigation purpose which affects the quality of food that is produced.This project analyses the existing system dust / smoke control in the industrial heaters and based on the criticality a control action will be initiated. Through MATLAB software, dust / smokeand discharge salt level are being monitored and controlled. Air is the most vital constituent of environment for the sustenance of life on earth. Air forms nearly 80% of man's daily intake by weight. In pure air, the proportion of different constituents like oxygen, nitrogen and other gases is fixed and definite. It may be noted that air cannot be pure because some gases like sulphur dioxide, carbon monoxide, oxides of nitrogen, emission from volcanoes and swamps, salt spray, pollens from plants etc., are continuously added to the air by natural processes. Thus, air is polluted when its natural composition is disturbed either by natural or by man-made sources.

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Simulation Analysis of 2D Filtering by Using Radix-3 Multiplier Less Stream Processor

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ABSTRACT: Two Dimensional convolution-based channelsare exhibited explicitly intended to improve Visual Search applications. It misuses another radix-3 apportioning technique for whole number numbers, got from the weight segment hypothesis, which permits substituting multipliers with rearranged gliding point adders, taking a shot at 32 bits skimming point channel coefficients. The memory association permits expounding the approaching information in raster filter request, as those specifically given by an obtaining source, without casing cradles and extra adjusting hardware. This Proposed System Implemented utilizing Verilog HDL and Simulated by Modelsim 6.4 c and Synthesized by Xilinx instrument. The proposed framework actualized in FPGA Spartan 3 XC3S 200 TQ-144.

KEYWORDS: multiplier, radix-3, floating point adder, FIR filter.

I. INTRODUCTION

Late progressions in the elaboration of superb media substance have advanced a serious research movement for the improvement of sifting administrators, whose equipment (HW) unpredictability is a noteworthy worry in applications intended to unadulterated speed, for example, picture and video elaboration. Such intricacy, to be sure, generally backslides in the distribution of an expansive number of number-crunching administrators and a subsequent loosening of the general circuit. The ongoing writing demonstrates that the previously mentioned issue is typically overseen either by repeating to the full/halfway serialization of the channels and collapsing methods or by mediating on the characteristic multifaceted nature of combined duplicate adders and increase gatherers (MAC). Since the previous way as a rule causes a huge decrease of the channel exhibitions, the last methodology remains the most precise approach to accomplish a decent power, execution, and zone (PPA) tradeoff. For this situation, the total evacuation of the multiplier hardware is by a wide margin the favored decision of a few creators, who repeat to quick adders and shifters instead of multipliers, as indicated by the coding of the operands, authoritative marked digit (CSD), and changed stall (MB), essentially. The improvement of sifting circuits turns out to be especially compelling when one of the operands can be decreased to a limited arrangement of precalculated values, as on account of predefined channel pieces. In such cases, the circulated number juggling (DA) technique can be effectively connected so as to segment increases in less difficult movements and augmentations. By utilizing recollections to store precalculated incomplete wholes, whose number can be diminished by the assistance of various consistent increase (MCM) methods , DA can be, on a fundamental level, favorably utilized instead of MB and CSD . Be that as it may, real exhibitions of DA result from a watchful tradeoff between its "characteristic" bit serial task and the parallelism by which the fractional aggregates are determined, which can prompt the over the top addition of mapped physical assets.

Computerized flag handling (DSP) is broadly utilized in numerous applications going from sound and discourse preparing to picture and video handling to radar and sonar handling. DSP calculations are executed in equipment utilizing PCs, particular processors called computerized flag processors (DSPs), field-programmable entryway clusters (FPGAs), or custom manufactured equipment called application-explicit coordinated circuits (ASICs). The decision of

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Missile Burst Prevention and Tracking System Using Image Processing In MATLAB

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ABSTRACT: The system is designed to track the missile and avoid the incidents where a single missile attack could cause the loss of thrust for an entire scheme. Here we are trying to develop a system to track the missile which ensuring the seeker and divert maneuver capabilities needed to remove system errors. The system will consist of two subsystems, a detection system and a deflection system. The detection system uses a camera and is connected to MATLAB and sends instruction for tracking in to microcontroller. The MATLAB reads the input image and is programmed to identify the presence of missile by analyzing the images using image processing. Once a missile is detected it activates the deflection system. The deflection system helps to detect the missile from following its current path thereby reducing the risk of missile tracking which has been implemented in MATLAB R2013a simulator.

KEYWORDS: PIC Microcontroller, Servo motor ,camcorder, Image processing.

I.INTRODUCTION

Image processing is a method of extracting some useful information by converting image into digital inform by performing some operations on it. Object detection and tracking are the task that is important and challenging such as video surveillance and vehicle navigation. Object tracking plays a vital role in the field of computer vision. Object tracking algorithms have acquired priority due to the availability of highly sophisticated computers, good quality and inexpensive camera. In the object tracking, the video analysis involves, moving object detection, object classification, frame to frame object tracking. Object detection deals with the identification of objects from video frame and to cluster pixels of these objects. In object classification, the objects are classified as birds, humans, vehicles and other moving objects. While object tracking involves the selection of Region of Interest (ROI) and keep tracking of motion and its positions from the video frames. This project reviews the various challenges and aspects of detection and tracking of missiles.

II.LITERATURE SURVEY

The purpose of a missile approach warning system (MAWS) is to detect approaching missiles with enough warning time to allow effective deployment of countermeasures. An active MAWS uses a pulsed Doppler radar to detect incoming missiles. For a fighter aircraft, application full spherical coverage must be provided by the MAWS. Due to

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Rail Robot-Unmanned Automatic Track Cleaning Robot

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ABSTRACT: Manual scavenging is done now-a - days, owing to the peculiar nature of the job, and many who are engaged for this job suffer from related health problems. The prevailing condition can be rectified to some extent by the adequate use of robotics and control technology. This device is the first of its kind proposed to be developed exclusively for the Indian Railways. Also, the railways can save a lot of money on water and labour charges. The application of this project in the current railway cleaning scenario will ensure that there will not be any nauseating scenes at railway stations across the country. We have accomplished some functionality critical in the waste clean-up in railway tracks, and have also tried to find solution for connected problems.

I.INTRODUCTION

Indian Railways is one of the largest railway networks in the world. Railways cover the entire length and breadth of the country. It has a total track length of 1, 14,500 km, with 7083 stations [1] dotted along. Indian Railways is also the largest employer in the country. It has come up as one of the nation's fast growing and profit making organizations. However, sadly enough, it has been years since the railways achieved complete sanitation. Open defecation through railways, unclean toilets, choked basins, and littered bogeys and tracks are the causes of the present poor sanitary condition of India's Railways

The toilets that are constantly in use in the train- coaches are small compartments with hole, through which human faeces is disposed off openly on tracks [1]. Disposing off the human excreta containing various harmful and deadly disease-causing microorganisms into the open tracks and thereby contaminating country-wide rivers, streams etc. Indian Railways is perhaps becoming the biggest mobile source of environmental pollution in the country. And of course, this kind of round -the-clock disposal of vast quantity of human waste in open environments to keep the trains clean is not at all healthy and advisable. The garbage from pantry cars and tray loads of hot meals on station and in train are also thrown off through the doors and windows of bogeys onto the tracks polluting the stations and places all along the train's way. The existing cleaning process of the tracks and the railway platforms is manual, which is tedious and far from the desired level of sanitation or cleanliness.

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Advanced Accident Detection Using NFC Technology

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ABSTRACT: With the increase of vehicles in today's world, fatalities occurring has attained its peak with more death rates. To reduce the recovery time and emergency personnel arrives, and to make mandatory use of license we propose a system that includes more detailed instant services to notify the injuries. Locating the exact incident may be a challenging task, but using GPS integrated with an embedded license has made it possible to reach out to the position, which has extended along with a profile of the user like name, blood group, license number, emergency number. This proposed system helps to alert the emerging requirements after an accident (like police stations and ambulance) service through GSM including the user condition with regard to extremity. In this project, we use NFC (Near-Field Communication). The NFC tag would be compulsorily placed in all vehicles. Also heart beat sensor is placed in the vehicle to detect the driver status during accidents. GSM and GPS sensors are also integrated along with the vehicle kit. We have placed flux sensor to detect major accident. Once the accident is been detected, the heart beat rate along with NFC tag details and current location is been uploaded in a cloud server using Internet of Things (IoT). Also alert message is been sent to the police stations and ambulance. Also to prevent accidents and rash driving, 3 times if the flux sensor is slightly triggered the NFC tag would be disabled. Since we embed and upload the driver license number in the tag, it would be seen by the government officials and respective actions would be taken.

KEYWORDS: Raspberry pi3, NFC, Internet of things, Element, Climate Notification, python.

I. INTRODUCTION

An embedded system is a combination of software and hardware to perform a dedicated task. Some of the main devices used in embedded products are Microprocessors and Microcontrollers. Microprocessors are commonly referred to as general purpose processors as they simply accept the inputs, process it and give the output. In contrast, a microcontroller not only accepts the data as inputs but also manipulates it, interfaces the data with various devices, controls the data and thus finally gives the result. NFC cards have brought a revolution in how industry takes care of large number of products. Either it has products in shopping mall, vehicles in an assembly line of a manufacturing unit or employee attendance etc., NFC card is nothing but a small electronic device either actively or passively functioned.

One of the key elements of NFC, near field communications technology is the ability for NFC enabled devices to be able to be touched onto passive "NFC tags." This facility of NFC technology is a key enabler for many applications. The NFC tags are now being manufactured in vary large volumes and they are being deployed in a number of areas of the world. Already many millions have been deployed and as NFC gains further momentum, tags