

IoT-based Vehicle Collision Prevention and Collision Alert System

**Submitted in partial fulfilment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering**

by:

Aryan Raghuvanshi (2000270310037)

Ashutosh Tyagi (2000270310039)

Avinav Yadav (2000270310040)

Ayush Bhadauria (2000270310042)

Under the supervision of

Mr. Himanshu Nagpal

Assistant Prof., ECE Department, AKGEC



**Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar,
Ghaziabad-201009**

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

May 2024


**Director
Ajay Kumar Garg Engg. College
Ghaziabad**

CERTIFICATE

This is to certify that the Project report entitled "IoT-based Vehicle Collision Prevention and Collision Alert System" which is submitted by Aryan Raghuvanshi, Ashutosh Tyagi, Avinav Yadav, Ayush Bhadauria in the partial fulfilment of the requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for the award of any degree.

Supervisor:



Mr. Himanshu Nagpal

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

on

Drone for Surveillance

Submitted in partial fulfilment of the requirements for the degree of B.Tech. in Electronics and

Communication Engineering by:

Deepika Pathak (2000270310059)

Dheeraj Kumar Yadav (2000270310062)

Arihant Dubey (2100270319002)

Manish Prajapati (2100270319007)

Under the supervision of

Mr. Abhishek Tiwari

Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009 Dr. A.P.J. Abdul

Kalam Technical University, Lucknow April 2023-24


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that the Project Report entitled “Drone for Surveillance” which is submitted by Deepika, Dheeraj, Arihant, Manish in the partial fulfilment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Mr. Abhishek Tiwari



Asst. Prof.

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE:

Dr. Neelesh Kumar Gupta



Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

ADVANCED ATM SURVIELLANCE SYSTEM

**Submitted in partial fulfilment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering
by:**

**ABHINAV SINGH (2000270310006)
DEEPANSHU GIRI (2000270310058)
DEVANSH GAUTAM (2000270310061)
DIVYANSHI SINGH (2000270310064)**

Under the supervision of

**Mr. Himanshu Nagpal
Assistant Prof., ECE Department, AKGEC**



**Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar,
Ghaziabad-201009**

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

May 2024


**Director
Ajay Kumar Garg Engg. College
Ghaziabad**

CERTIFICATE

This is to certify that Project Report entitled “Advanced ATM Surveillance System” which is submitted by Abhinav Singh, Deepanshu Giri, Devansh Gautam, Divyanshi Singh in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Mr. Himanshu Nagpal

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report
On
LEAF DISEASE DETECTION USING PYTHON

Submitted in partial fulfilment of the requirements for the degree of

B.Tech. in

Electronics and Communication Engineering

by:

Arushi Kansal (2000270310036)
Aman Garg (2000270310017)
Chiranjeev Tyagi (2000270310053)

Under the supervision of

Dr. Himani Garg
Professor, ECE Department
AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad
201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled “**Leaf Disease Detection using Python**” which is submitted by **Arushi Kansal (2000270310036)**, **Aman Garg (2000270310017)**, **Chiranjeev Tyagi (2000270310053)** in the fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. It is a record of student’s work carried out under my supervision. The matter in this report is not been submitted to any University or Institution for the award of any degree.

Guide:


Dr. Himani Garg

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE:


Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report
on
SMART STREET LIGHT USING POWER
GENERATION THROUGH PIEZOELECTRIC
TECHNOLOGY

Submitted in partial fulfilment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Anushka Srivastava	(2000270310032)
Ashmit Srivastava	(2000270310038)
Ayushi Gupta	(2000270310048)
Siddharth Maurya	(2100270319010)

Under the supervision of

Dr AMITA ASTHANA

Asso. Prof. ECE Department, AKGEC Ghaziabad



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled “Smart Street Light Using Power Generation Through Piezoelectric Technology” which is submitted by – Anushka Srivastava, Ashmit Srivastava, Ayushi Gupta, Siddharth Maurya - in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Dr. Amita Asthana

Associate Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE:



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report
On
IOT Based Child Safety System

**Submitted in partial fulfillment of the
requirements for the degree of B. Tech. in
Electronics and Communication Engineering**

By:

**Aman Aggarwal (2000270310015)
Anshul (2000270310028)
Anuj Kumar Kannojiya (2000270310030)
Arunendra Utkarsh (2000270310035)**

Under the supervision of

**Ms. Nilufar Yasmin
Assistant Prof., ECE Department, AKGEC**



**Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi –Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr.A.P.J. Abdul Kalam Technical University, Lucknow**


MAY 24


**Director
Ajay Kumar Garg Engg. College
Ghaziabad**

CERTIFICATE

This is to certify that the Project report entitled “IOT Based Child Safety System” which is submitted by Aman Aggarwal, Anshul, Anuj Kumar Kannojiya, and Arunendra Utkarsh in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of student's own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Ms. Nilufar Yasmin

Assistant Prof.

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE


Dr. Neelesh Kumar Gupta

Professor & HoD

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report
on
Home Automation Using Voice Command
and Gesture

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Ajeet Raj Yadav (2000270310011)
Abhay Dixit (2000270310002)
Divyanshu Singh (2000270310065)
Aayush Sharma (2000270310001)

Under the supervision of
Mr. Naveen Kumar Saini
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi – Meerut Expressway, P.O. Adhyatmik Nagar,
Ghaziabad Uttar Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow Uttar Pradesh
May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled “Home Automation Using Voice Command and Gesture” which is submitted by Ajeet Raj Yadav, Abhay Dixit, Divyanshu Singh, Aayush Sharma in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Mr. Naveen Kumar Saini

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report
on
SMART MULTI APPLICATION
SURVEILLANCE ROBOT

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Abhay Gupta (2000270310003)
Anuj Pratap Singh (2000270310031)
Ayush Pratap Singh (2000270310045)
Ayush Kumar (2000270310043)

Under the supervision of

Naveen Kumar Saini
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Smart Multi Application Surveillance Robot" which is submitted by Student names Abhay Gupta, Anuj Pratap Singh, Ayush Pratap Singh, Ayush Kumar in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Naveen Kumar Saini



Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

on

IOT BASED SPYING ROBOTIC CAR

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Abhinav	2000270310005
Aman Maurya	2000270310019
Ankit Gupta	2000270310024
Bhagat S Chauhan	2000270310050

Under the supervision of

Dr. Ritish Kumar
Assistant Prof., ECE Department, AKGEC




Ajay Kumar Garg Engineering College
27th Km Milestone, Delhi – Meerut Expressway, Ghaziabad-201015
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "IOT Based Spying Robotic Car" which is submitted by Ankit Gupta, Bhagat Singh Chauhan, Aman Maurya and Abhinav in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Dr. Ritish Kumar

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE


Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report
on
IoT BASED METER THEFT ALERT WITH
SMARTRECHARGE ANDOVERLOAD
DETECTION SYSTEM

Submitted in Partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

By:

Adarsh Kumar Rai (2000270310007)
Akshat Goyal (2000270310013)
Aman Chaubey (2000270310016)
Ayush Kumar Singh (2000270310044)

Under the supervision of

Ms. Ankita Sharma
Assistant Professor, ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi–Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-
201009 Dr. A.P.J. Abdul Kalam Technical University, Lucknow
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "IoT based meter theft alert with smart recharge and overload detection system" which is submitted by Adarsh Kumar Rai, Akshat Goyal, Aman Chaubey, Ayush Kumar Singh in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Ms. Ankita Sharma



Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE:

Dr. Neelesh Kumar Gupta



Professor & HoD

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

on

Autonomous Delivery Drone

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Deepti Maurya (2000270310060)
Abhigyan Shukla (2000270310004)
Bishwajeet Mondal (2100270319003)
Dakshit Pradhan (2000270310054)

Under the supervision of

Assistant Prof. Uma Sharma
ECE Department, AKGEC




Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Autonomous Delivery Drone" which is submitted by - Deepti Maurya, Abhigyan Shukla, Bishwajeet Mondal and Dakshit Pradhan - in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:


Uma Sharma 

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE

Neelesh Gupta 

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report
On
CLASSIFICATION OF DIABETIC RETINOPATHY USING
IMPROVED RESNET-50 DEEP LEARNING MODEL

Submitted in partial fulfilment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Aniruddh Vaish (2000270310022)

Deepak Singh (2000270310057)

Ankit Rathore (2000270310025)

Anjali Tiwari (2000270310023)

Under the supervision of

Associate Prof (Dr.) Amit Garg

Department of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow


May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled “Classification of Diabetic Retinopathy Using Improved ResNet-50 Deep Learning Model” which is submitted by Aniruddh Vaish (2000270310022), Deepak Singh (2000270310057), Ankit Rathore (2000270310025), Anjali Tiwari (2000270310023) in the partial fulfilment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Associate Prof. (Dr.) Amit Garg

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE:



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report

on

SOLAR WIRELESS EV CHARGER WITH COOLING FAN INTEGRATION

Submitted in partial fulfillment of the requirements for the degree of
B.Tech. in Electronics and Communication Engineering
by:

ADITI RANJAN SINGH	(2000270310009)
AKASH GUPTA	(2000270310012)
ANUJ CHAUHAN	(2000270310029)
ANIL KUMAR	(2000270310021)

Under the supervision of

Dr . Karunesh Srivastava
Asso Prof., ECE Department, AKGEC



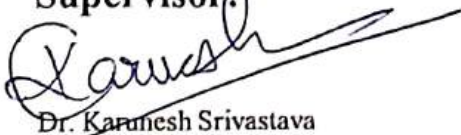
Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
May ,2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Solar Wireless EV Charger with Cooling Fan Integration" which is submitted by Aditi Ranjan Singh, Akash Gupta, Anuj Chauhan & Anil Kumar in the partial fulfilment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution forward of any degree.

Supervisor:



Dr. Karanesh Srivastava

Asso. Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE



Dr. Neelesh Kumar Gupta Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report

on

REAL TIME SAFETY MONITORING SYSTEM IN COAL MINES USING IOT

Submitted in partial fulfilment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

APARNA BISHT	(2000270310033)
AMAN	(2000270310014)
DEEPAK KUMAR YADAV	(2000270310056)
ANAND PANDEY	(2000270310020)

Under the supervision of

Associate Prof. (Dr.) AMIT GARG

Department of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad- 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

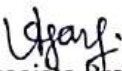
May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad


CERTIFICATE

This is to certify that Project report entitled "REAL TIME SAFETY MONITORING SYSTEM IN COAL MINES USING IOT" which is submitted by Aparna Bisht (2000270310033), Aman (2000270310014), Deepak Kumar Yadav (2000270310056), Anand Pandey (200027031002) in the partial fulfilment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:


Associate Prof. (Dr.) Amit Garg
ECE Department
Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE:


Dr. Neelesh Kumar Gupta
Professor
ECE Department
Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

On

**"Density based traffic light control using open Cv with ambulance
priority"**

Submitted In Partial Fulfillment of the Requirement for the Degree of Bachelor of
Technology in Electronics & Communication Engineering

By:

Ankita Yadav (2000270310026)

Best Raj Singh (2000270310049)

Dakshita Singh (2000270310055)

Divyanshi Dwivedi (2000270310063)

Under the Supervision of:

Dr. Karunesh Srivastava (Asso. Professor ECE Department)



Ajay Kumar Garg Engineering College, Ghaziabad 27th Km Stone, Delhi - Hapur Bypass
Road, Adhyatmik Nagar, Ghaziabad-201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

CERTIFICATE

This is to certify that Project report entitled “Density based traffic light control using open Cv with ambulance priority” which is submitted by Student names **Ankita Yadav, Best Raj Singh, Dakshita Singh, Divyanshi Dwivedi** in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Asso. Prof.

Karunesh Srivastava

ECE Department

HOD ECE:

Dr. Neelesh Kumar Gupta

ECE Department

Project Report
on
WIRELESS CHARGING OF ELECTRIC
VEHICLES

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Nandini Pundir (2000270310101)
Navin Kumar Tripathi (2000270310102)
Paritosh Yadav (2000270310107)
Prakhar Sachan (2000270310114)

Under the supervision of

Guide: Mr. Abhishek Tiwari
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar,
Ghaziabad-201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow


November, 2023


Director
Ajay Kumar Garg Engg. College
Ghaziabad


CERTIFICATE

This is to certify that Project report entitled “**Wireless Charging of Electric Vehicles**” which is submitted by Prakhar ,Paritosh ,Navin and Nandini in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of student’s work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for the award of any degree.

Supervisor:

Mr. Abhishek Tiwari 
Assistant Professor
ECE Department
Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE


Dr. Neelesh Kumar Gupta
Professor
ECE Department
Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report
On
SPYNOID: Surveillance Programmable
Navigation and Observation Intelligence Device

Submitted in fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Harsh Kumar Srivastava	(2000270310070)
Ishita Srivastava	(2000270310078)
Jayan Chatterji	(2000270310080)
Prashant	(2000270310117)

Under the supervision of

Dr. Pankaj Goel

Assistant Professor, ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

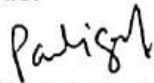
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "SPYNOID: Surveillance Programmable Navigation and Observation Intelligence Device" which is submitted by Harsh Kumar Srivastava, Ishita Srivastava, Jayan Chatterji, and Prashant in the fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. It is a record of student's work carried out under my supervision. The matter in this report is not been submitted to any University or Institution for the award of any degree.

Guide:



Dr. Pankaj Goel

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE:



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report
On
IoT BASED SALINE AND PATIENT MONITORING
SYSTEM

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Drashtant Gangwar (2000270310066)

Manish Rana (2000270310093)

Priyank Chauhan (2000270310120)

Monoo (2000270310099)

Under the supervision of

Prashant Mani Tripathi

Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

November, 2023

1


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "IoT Based Saline and Patient Monitoring System" which is submitted by-Manish Rana (2000270310093), Drashtant Gangwar (2000270310066), Priyank Chauhan(2000270310120) ,Monoo (2000270310099) in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Mr. Prashant Mani Tripathi

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

IoT ENABLED SMART SYSTEM FOR SAFETY & MONITORING OF VEHICLES WITH GPS BASED TOLL TAX COLLECTION

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.

by:

Harsh Patel (2000270310071)
Harshit Tripathi (2000270310074)
Jahnvi Tiwari (2000270310079)
Priya Kumari Srivastava (2000270310119)

Under the supervision of
Mr. Naresh Kumar
Assistant Professor
Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201015

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "IoT ENABLED SMART SYSTEM FOR SAFETY & MONITORING OF VEHICLES WITH GPS BASED TOLL TAX COLLECTION" which is submitted by Jahnvi Tiwari, Harshit Tripathi, Priya Srivastava, Harsh Patel in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Mr. Naresh Kumar
Assistant Professor
ECE Department

HOD ECE:



Dr. Neelesh Kumar Gupta
Professor

Date:

A Project Report

on

AquaSense Monitoring System

**Submitted in partial fulfillment of the requirements for the degree of
B.Tech. in Electronics and Communication Engineering.**

by:

Priyanshi Tyagi (2000270310121)
Kamal singh Bhandari (2000270310082)
Himanshu Singh (2000270310077)
Eshani Yadav (2000270310067)

Under the supervision of
Prof. Neelesh Kumar Gupta
Department of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar,
Ghaziabad, Uttar Pradesh, 201009


Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "AquaSense Monitoring System" which is submitted by Priyanshi Tyagi, Kamal singh Bhandari, Himanshu singh, Eshani Yadav in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:


Dr. Neelesh Kumar Gupta
Prof. & HoD ECE

Date:

A Project Report
on
CENTRALIZED MONITORING SYSTEM FOR STREET
LIGHT FAULT DETECTION AND LOCATION
TRACKING WITH LOW POWER CONSUMPTION

Submitted in partial fulfillment of the requirements for the degree of
B.Tech. in Electronics and Communication Engineering.

by:

Kamakshi Vashista (2000270310081)
Mohd Washi (2000270310097)
Piyush Tomar (2000270310108)
Abhay Gangwar (2100270319001)

Under the supervision of
Assistant Prof. Neeraj Sharma
Department of Electronics and Communication Engineering




Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar,
Ghaziabad, Uttar Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "Centralized monitoring system for street light fault detection and location tracking with low power consumption" which is submitted by Kamakshi Vashista, Mohd Washi, Piyush Tomar, Abhay Gangwar in the partial fulfillment of the requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' work carried out under my supervision. The matter in this report has not been submitted to any university or institution for the award of any degree.


Supervisor:
Neeraj Sharma
Assistant Professor
ECE Department
Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE:
Dr. Neelesh Kumar Gupta
Professor
ECE Department
Ajay Kumar Garg Engineering College, Ghaziabad

Date: 25 May 2024

A Project Report on ANIMATRONIC HAND

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.

By:

Raghav Raj Johari(2000270310123)
Poornima Bhardwaj(2000270310109)
Keshav Kaushlya(2000270310086)
Prakriti Upadhyay(2000270310115)

Under the supervision of
Ms. Ankita Sharma
Assistant Professor

Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "ANIMATRONIC HAND" which is submitted by Raghav Raj Johari, Poornima Bhardwaj, Keshav Kaushlya, Prakriti Upadhyay in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Ms. Ankita Sharma



Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College

HoD ECE:

Dr. Neelesh Kumar Gupta



Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report
on
SMARTAIL: A FUTURISTIC APPROACH

**Submitted in partial fulfillment of the requirements for the
degree of B.Tech in Electronics and Communication
Engineering
by:**

KETAN CHAUHAN (2000270310087)
HIMANSHU SHARMA (2000270310076)
HARSH SHARMA (2000270310072)
PRAJJWAL NARAYAN RAI (20002703100112)

Under the supervision of

Mr. DUSHYANT SINGH CHAUHAN

Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad

27th KM Milestone, Delhi - Meerut Expy, Ghaziabad, Uttar Pradesh 201015
Dr. A.P.J. Abdul Kalam Technical University, Lucknow

MAY 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "Smart Rail: A futuristic Approach" which is submitted by Harsh Sharma, Himanshu Sharma, Ketan Chauhan, Prajwal Narayan Rai in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Mr. Dushyant Singh Chauhan

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

on

SMART BIN WITH MOVABLE SOLAR PANEL

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Nancy Chaudhary	(2000270310100)
Prajwal Chaudhary	(2000270310111)
Pranay Singh Raghuvanshi	(2000270310116)
Ritik Kumar Narya	(2000270310130)

Under the supervision of

Guide: Ms. Pooja Mishra
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar,
Ghaziabad-201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled “Smart Bin with Movable Solar Panel” which is submitted by **Nancy, Prajjwal, Pranay and Ritik** in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of student’s work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for the award of any degree.

Supervisor:

Ms. Pooja Mishra

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE

Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report
On
Smart Accident Detection System

Submitted in partial fulfillment of the requirements for the degree of B.Tech.in
Electronics and Communication Engineering
by:

Fahad Hussain (2000270310068)
Kushank Kori (2000270310090)
Lakshya Dubey (2000270310091)
Km Priya (2100270319006)

Under the supervision of
Asst. Prof. Shailendra Singh Ojha
Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled “**Smart Accident Detection System**” which is submitted by Fahad Hussain ,Kushank Kori ,Lakshya Dubey, Km Priya in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students’ own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Asst. Prof. Shailendra Singh Ojha

ECE Department

Ajay Kumar Garg Engineering College

HOD ECE:



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College

Project Report
On
AUTOMATED AIR PURIFIER ROVER

Submitted in partial fulfillment of the requirements for the degree of B.Tech. In Electronics and
Communication Engineering

By

Kishan Verma (2000270310088)

Mohit Nandan (2000270310098)

Nitin Kumar (2000270310103)

Dharmesh Saraswat (2100270319004)

Under the supervision of

Guide:

Ms. Priyanka Sharma

Assistant Professor. ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi – Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009 Dr.A.P.J.Abdul
Kalam Technical University, Lucknow May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "Automated Air Purifier Rover" which is submitted by Mohit Nandan , Nitin Kuamr , Dharmesh Saraswat , Kishan Kumar in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of student's own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution forward of any degree.

Supervisor:

Ms. Priyanka Sharma

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College

HOD

Dr Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College

A project report on Automatic Plant Water Monitoring System and Shadow Shelter

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.

by:

Harsh Singh	(2000270310073)
Meet Choudhary	(2000270310095)
Mohd. Harmain	(2000270310096)
Rishabh Kumar	(2000270310126)
Ritik Kumar	(2000270310129)

Under the supervision of
Asst. Prof. Sulekha Saxena
Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024

CERTIFICATE

This is to certify that Project Report entitled "Automatic Plant Water Monitoring System and Shadow Shelter" which is submitted by Harsh Singh, Meet Choudhary, Mohd. Harmain, Rishabh Kumar, Ritik Kumar in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Asst. Prof. Sulekha Saxena

ECE Department,

Ajay Kumar Garg Engineering College, Ghaziabad



HOD ECE:

Dr. Neelesh Kumar Gupta

ECE Department,

Ajay Kumar Garg Engineering College, Ghaziabad



Date:

30/5/21

A Project Report
On
MEDICINE VENDING MACHINE
WITH AUTOMATED ARM
MECHANISM

**Submitted In Partial Fulfillment of the Requirement for the Degree of
Bachelor of Technology in Electronics & Communication Engineering**

By:

Kaushal Saraf (2000270310085)

Pankaj Kumar (2000270310106)

Rishi Yadav (2000270310127)

Kartik Verma (2000270310083)

Prakhar Nigam (2000270310113)

Under the Supervision of:

Dr. Divya Sharma

Asst. Professor, ECE Department AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad

27thKm Stone, Delhi - Hapur Bypass Road, AdhyatmikNagar, Ghaziabad 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

May, 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad



Scanned with OKEN Scanner

CERTIFICATE

This is to certify that Project report entitled "MEDICINE VENDING MACHINE WITH AUTOMATED ARM MECHANISM" which is submitted by Student names Kaushal Saraf, Pankaj Kumar, Prakhar Nigam, Rishi Yadav, Kartik Verma in the partial fulfillment of requirement or the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Dr. Divya Sharma



Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College

HOD ECE

Dr. Neelesh Kumar Gupta



Prof. & HoD ECE

Project Report
on

**LABVIEW-CONTROLLED I-BIN:
PERSON DETECTION AND WASTE SEGREGATION**

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.

by:

Pulkit Goel (2000270310122),

Raghavendra Singh (2000270310124),

Prashant Upadhyay (2000270310118),

Rishita Yadav (2000270310128)

Under the Supervision of

Ms. Suvarna Mujumdar (Asst. Professor EC Engg. Department)

and

Mr. Vikash Kumar (Asst. Professor Mech. Engg Department)



AJAY KUMAR GARG ENGINEERING COLLEGE GHAZIABAD
27th Km. Stone, NH-24, Delhi-Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-
201009

DR. A. P. J. ABDUL KALAM TECHNICAL UNIVERSITY LUCKNOW

May-2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that the report entitled “LabVIEW-Controlled i-Bin: Person Detection & Waste segregation” submitted to Ajay Kumar Garg Engineering College, Ghaziabad, in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering is bona fide record of work submitted by Pulkit Goel (2000270310122), Raghavendra Singh (2000270310124), Prashant Upadhyay (2000270310118), Rishita Yadav (2000270310128) under my supervision. The matter presented in this report has not been submitted to any other university or institution for the award of any degree to the best of my knowledge.

Supervisor:



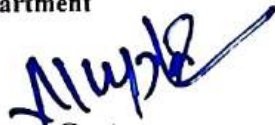
Ms. Suvarna Mujumdar
Asst. Professor Electronics and Communication Department
Ajay Kumar Engineering College, Ghaziabad

Co-Supervisor:



Mr. Vikash Kumar
Asst. Professor Mechanical Engineering Department
Ajay Kumar Engineering College, Ghaziabad

HoD ECE Department



Dr. Neelesh Kumar Gupta
Professor
HOD ECE Department
Ajay Kumar Engineering College, Ghaziabad

Project Report
on
CART GENIUS: A smart shopping
companion

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Pulkit Sharma (2100270319009)

Suryansh (2000270310166)

Uttam Gupta (2000270310179)

Yatindra Kumar Dwivedi (2000270310194)

Under the supervision of

Dr. Jitender Chhabra

Associate Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad

201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

May, 2024

i


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATION

This is to certify that the Project report entitled "CART GENIUS: A smart shopping companion" which is submitted by Pulkit Sharma, Suryansh, Uttam Gupta, and Yatindra Kumar Dwivedi in the partial fulfillment of the requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for the award of any degree.

Supervisor:



Dr. Jitender Chhabra

Associate Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE



Dr. Neelesh Kumar Gupta

Professor and HOD

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report

On

LIBRARY AUTOMATION USING IOT

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.

by:

Sanjana Goswami (2000270310138)
Ujjwal Kumar (2000270310177)
Suhel Ahmad (2000270310164)
Sajag Kumar (2000270310135)

Under the supervision of
Asst. Prof. Om Krishna Gupta
Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "Library Automation using IoT" which is submitted by Sanjana Goswami, Ujjwal Kumar, Suhel Ahmad, Sajag Kumar in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Asst. Prof. Om Krishna Gupta
ECE Department

HOD ECE:



Date: 27/05/2024

A project report on Smart Waste Sorting System: Automated Segregation of Metals, Glass, and Organics with Sensors

**Submitted in partial fulfillment of the requirements for the degree of
B.Tech. in Electronics and Communication Engineering
by:**

**Shivam Kaushik
(2000270310146)**

**Tanya Dubey
(2000270310172)**

**Yash Gangwar
(2000270310186)**

**Vivek Kr. Yadav
(2000270310183)**

Under the supervision of

**Ms. Pooja Mishra
Assistant Prof., ECE Department, AKGEC**



**Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad
201009**

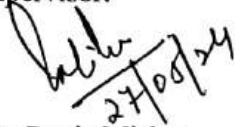
**Dr. A.P.J. Abdul Kalam Technical University, Lucknow
November, 2023**


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Smart Waste Sorting System: Automated Segregation of Metals, Glass, and Organics with Sensors" which is submitted by Shivam Kaushik, Tanya Dubey, Yash Gangwar, Vivek Kr. Yadav in the partial fulfilment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Ms. Pooja Mishra

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

On

Solar Powered Car Ventilation System

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Saksham Rajput (2000270310137)
Shivanand Tiwari (2000270310148)
Siddharth Khurana (2000270310160)
Umesh Nagar (2000270310178)

Under the supervision of

Dr. Prashant Mani Tripathi
Assistant Prof. ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
May, 2024

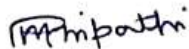
i


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Solar Powered Car Ventilation System" which is submitted by Students Saksham Rajput (2000270310137), Shivanand Tiwari (2000270310148), Siddharth Khurana(2000270310160), Umesh Nagar(2000270310178) in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Dr. Prashant Mani Tripathi

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

on

Smart Hand Gesture Control Keyboard

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Shreyansh Singh (2000270310155)
Rohan Pal (2000270310131)
Tanishq Saxena (2000270310171)
Shubham Singh (2000270310158)

Under the supervision of

Mr. Neeraj Sharma
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
November, 2023

CERTIFICATE

This is to certify that Project report entitled "Smart Hand Gesture Control Keyboard" which is submitted by Student **Shreyansh Singh** (2000270310155), **Rohan Pal** (2000270310131), **Tanishq Saxena** (2000270310171), **Shubham Singh** (2000270310158) in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Neeraj
29/05/24

Mr. Neeraj Sharma

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE

Neelesh

Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

REPORT ON

**ADVANCED HYBRID POWER
MANAGEMENT SYSTEM**

**Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering**

by:

Sachin Mishra (2000270310132)

Shashwat Chaurasia (2000270310145)

Shivendra Singh (2000270310149)

Sourabh Singh (2000270310162)

Under the supervision of

Asst. Prof. Ms. Neha Garg

Department Of Electronics and Communication Engineering, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow, UP


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Advanced Hybrid Power Management System" which is submitted by Sachin Mishra, Shashwat Chaurasia, Shivendra Singh, Sourabh Singh in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:


27/10/24

Ms. Neha Garg

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

Enabling Cognitive Attendance Precision via Interwoven ML-RFID Synergy

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Sarthak Singh (2000270310140)
Varun Chaudhary (2000270310180)
Vivek Rawat (2000270310184)
Yuvraj Singh (2000270310195)

Under the supervision of

Mr. Gagandeep Singh
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad, Uttar
Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Enabling Cognitive Attendance Precision via Interwoven ML-RFID Synergy" which is submitted by Student Sarthak Singh (2000270310140), Yuvraj Singh (2000270310195), Vivek Rawat (2000270310184), Varun Chaudhary (2000270310180) in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Mr. Gagandeep Singh

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

A Project Report

On

FLEXIDRONE: A drone for the purpose of Natural Calamities Operation

**Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.**

by:

Yash Kumar Saxena (2000270310188)

Swastik Trivedi (2000270310168)

Shivi Gupta (2000270310150)

Trapti Shakya (2000270310174)

Under the supervision of

Dr. Jitender Chhabra

Associate Prof., ECE Department, AKGEC

Department Of Electronics and Communication Engineering



**Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201009**

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh

May 2024


**Director
Ajay Kumar Garg Engg. College
Ghaziabad**



CERTIFICATE

This is to certify that Project Report entitled "Flexidrone: For the purpose of natural calamities" which is submitted by Yash Kumar Saxena, Swastik Trivedi, Shivi Gupta, Trapti Shakya in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.



Supervisor:

Dr. Jitender Chhabra
Associate Prof.
ECE Department

HOD ECE:



Date: 27/05/2024

A Project Report on VOXCHAIR - VOICE CONTROLLED WHEEL CHAIR

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering

by:

Yashaswi Sharma
(2000270310192)

Saksham Agrawal
(2000270310136)

Swati Saxena
(2000270310169)

Preeti Singh
(2100270319008)

Under the supervision of

Mr. Gagandeep Singh
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi- Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad- 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024

i


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "VOXCHAIR – VOICE CONTROLLED WHEEL CHAIR" which is submitted by- Yashaswi Sharma (2000270310192), Saksham Agrawal (2000270310136), Swati Saxena (2000270310169) and Preeti Singh (2100270319008) in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:




Mr. Gagandeep Singh

Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HoD ECE



Dr. Neelesh Kumar Gupta

Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Report

On

Human Detection And Proximal Analysis Of Automated Fire Fighter Using Machine Learning

*Submitted in partial fulfilment of the
requirements for the award of the degree*

of

BACHELOR OF TECHNOLOGY

in

ELECTRONICS AND COMMUNICATION ENGINEERING

by

Sanskriti Jaiswal (2000270310139)

Saumya Rai (2000270310142)

Shivi Sharma (2000270310151)

Vedant Sonkar (2000270310181)

Under the supervision

of

Dr. Gaurav Saxena

Associate Prof., ECE Department, AKGEC



AJAY KUMAR GARG ENGINEERING COLLEGE GHAZIABAD

27th Km. Stone, NH-24, Delhi-Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad- 201009

DR. A. P. J. ABDUL KALAM TECHNICAL UNIVERSITY LUCKNOW

Year : 2023 – 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad



**AJAY KUMAR GARG ENGINEERING COLLEGE
GHAZIABAD**

CERTIFICATE

This is to certify that the project report entitled “Drishti : Visual Assistance for the visually challenged” submitted to Ajay Kumar Garg Engineering College, Ghaziabad, in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Electronics and Communication Engineering of Dr. A. P. J. Abdul Kalam Technical University, Lucknow, is bonafide record of work submitted by Shivi Sharma (2000270310151), Sanskriti Jaiswal (2000270310139), Saumya Rai(2000270310139) and Vedant Sonkar (2000270310181) under my supervision. The matter presented in this report has not been submitted to any other university or institution for the award of any degree to the best of my knowledge.


27/05/2024

Dr. GAURAV SAXENA
Associate Professor
Department of ECE
AKGEC, Ghaziabad



Dr. NEELESH GUPTA
Prof & Head
Department of ECE
AKGEC, Ghaziabad

REPORT ON

Smart Glasses Using AI and Ultrasonic Sensor

Submitted in partial fulfillment of the requirements for the degree of B.Tech. in
Electronics and Communication Engineering.

by:

Saurabh Tiwari (2000270310143)
Shivam Mishra (2000270310147)
Shubham Singh (2000270310157)
Yuvraj Singh Bhadauria (2000270310196)

Under the supervision of
Asst. Prof. Nilufar Yasmin
Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "Smart Glasses Using AI and Ultrasonic Sensor" which is submitted by Shivam Mishra, Shubham Singh, Saurabh Tiwari, Yuvraj Singh Bhadauria in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Asst. Prof. Nilufar Yasmin
ECE Department

Nilufar Yasmin
27/05/24

HOD ECE:

Dr. Neelesh Kumar Gupta
Prof. ECE Dept., AKGEC

Neelesh Kumar Gupta

Date: 27/05/24

PROJECT REPORT
ON
HELPING HAND FOR HANDICAPPED
(TRIPLE H)

Submitted in partial fulfillment of the requirements for the degree of
B.Tech. in Electronics and Communication Engineering
by:

Sumit Sharma (2000270310165)
Shagun Kumar (2000270310144)
Satyam Singh (2000270310141)
Shri Bihari Singh (2000270310156)

Under the supervision of

Dr. Divya Sharma
Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009
Dr. A.P.J. Abdul Kalam Technical University, Lucknow
April, 2024

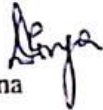

Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Helping Hand For Handicap" which is submitted by Student Sumit Sharma (2000270310165), Shagun Kumar (2000270310144), Satyam Singh (2000270310141), Shri Bihari Singh (2000270310156) in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Dr. Divya Sharma



Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE

Dr. Neelesh Kumar Gupta



Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

Project Synopsis
on
Medical Assistance Bot: DOBO

Submitted in partial fulfillment of the requirements for the degree of B.Tech.

In Electronics and Communication Engineering

by:

Shobhit Singh Rawat (2000270310152)

Suyash Kumar Srivastava (2000270310167)

Yashdeep Tyagi (2000270310193)

Yash Rajput (2000270310189)

Under the supervision of

Dr. Sulekha Saxena

Assistant Prof., ECE Department, AKGEC



Ajay Kumar Garg Engineering College, Ghaziabad

27th Km Stone, Delhi - Hapur Bypass Road, Adhyatmik Nagar, Ghaziabad-201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow 2023-2024

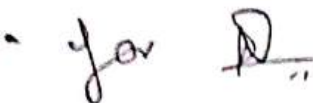

Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project report entitled "Medical Assistance Bot: DOBO" which is submitted by Shobhit Singh Rawat, Yashdeep Tyagi, Yash Rajput and Suyash Kumar Srivastava in the partial fulfilment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:

Dr. Sulekha Saxena



Assistant Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad

HOD ECE

Dr. Neelesh Kumar Gupta



Professor

ECE Department

Ajay Kumar Garg Engineering College, Ghaziabad


Director
Ajay Kumar Garg Engg. College
Ghaziabad

A Project Report
on
SMART VEHICLE SECURITY SYSTEM

Submitted in partial fulfillment of the requirements for the degree of
B.Tech. in Electronics and Communication Engineering

by:

Shrey Sharma (2000270310153)

Shreya Agrahari (2000270310154)

Yash Vashishtha (2000270310191)

Gurleen Kaur (2100270319005)

Under the supervision of

Asst. Prof. Om Krishna Gupta

Department Of Electronics and Communication Engineering



Ajay Kumar Garg Engineering College, Ghaziabad
27th Km Stone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad,
Uttar Pradesh, 201009

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh
May 2024


Director
Ajay Kumar Garg Engg. College
Ghaziabad

CERTIFICATE

This is to certify that Project Report entitled "Smart Vehicle Security System" which is submitted by Shrey Sharma, Shreya Agrahari, Yash Vashishtha, Gurleen Kaur in the partial fulfillment of requirement for the award of degree of Bachelor of Technology (Electronics and Communication Engineering) submitted to Dr. A.P.J. Abdul Kalam Technical University, Lucknow is a record of students' own work carried out under my supervision. The matter in this report has not been submitted to any University or Institution for award of any degree.

Supervisor:



Asst. Prof. Om Kristina Gupta

ECE Department

(Ajay Kumar Garg Engineering College, Ghaziabad)

HOD ECE:



Dr. Neelesh Kumar Gupta Professor

ECE Department

(Ajay Kumar Garg Engineering College, Ghaziabad)

Date: