AMAN SAINI

📍 Roorkee

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SKILLS

Programming Languages

C, C++, and python, Embedded C.

Programmable Circuit board used-

Arduino uno, Raspberry pi, Arduino Nano

Software's & Libraries

PTC Creo, Auto CAD, Cadence, Visual Studio Code, Bootstrap, Microsoft Excel, RASBIAN OS, Arduino IDE

Soft Skills

Problem Solving, Strong interpersonal skill, easy adapts the working environment and Quick Learner.

CERTIFICATIONS

1. INTRODUCTION TO PYTHON
Machine learning.org.in
http://machinelearning.org.in/courses/certificate/c1a83d24db

2. E-learning course on self-charged Hybrid Electric vehicle (XEV SHIKSHA)
ASDC
https://www.ASDC.com/certificate/UC-6aee2559-14c7-4b8d-87a9-d336949319f4/

3. Heart disease classification using ML.
Machine learning.org.in
http://machinelearning.org.in/courses/certificate/68c39873bc

4. Project Management Professional.
Machine learning.org.in
http://machinelearning.org.in/courses/certificate/e386ff6dcc

INTERESTS

Problem Solving.

Electric vehicle.

Robotics.

Automotive Electrical System.

Electronic Control Units

LANGUAGES

English, Hindi

RELEVANT COURSEWORK

Automotive Wiring Harness Design (CATIA V5)

Microprocessor &Microcontroller

Data Structure & Algorithms

Object Oriented Programming

Integrated Circuit

Embedded System

EDUCATION

Govind Ballabh Pant Institute of Engineering and Technology, Pauri, Uttarakhand

Bachelor of Technology Electronics and Communication Engineering-80%   📅 2020 - 2024

Anand Swaroop Arya Saraswati Vidya Mandir Roorkee (CBSE), India
Science (PCM), Senior Secondary Education – 90%   📅 07/2020

Anand Swaroop Arya Saraswati Vidya Mandir Roorkee (CBSE), India
Higher Secondary Education – 83%   05/2018   📅

INTERNSHIP

1.Power Transmission Corporation of Uttarakhand (PTCUL).
Power Transmission Engineering   📅 06/2023 - 07/2023   📍 Roorkee

- Designing and maintaining electrical transmission systems for optimal efficiency, reliability, andsafety.

2. EMERTXE

Core Embedded Programing.

Work Experience

➤ **Ev Design Engineer**
QUCEV Technologies Private Limited   📅 2024
Designed and optimized electrical systems for electric vehicles, including 12V low-voltage battery management, wiring harness development, circuit design, and integration of electrical components to enhance vehicle performance and efficiency.

PROJECTS

. **Project 1**
Project Title: IOT based Wireless Charging Station for Electric Vehicles (EVs).
Project Details: Developed an IoT-based Wireless Charging Station for Electric Vehicles (EVs) using Arduino Uno, integrating real-time monitoring and control capabilities. Implemented advanced wireless charging technology to efficiently charge EVs without physical contact, enhancing user convenience and reducing dependency on traditional charging infrastructure. This project involved hardware design, software development, and integration of sensors for seamless operation and enhanced user experience, contributing to sustainable transportation solutions.
Software used for this project: Arduino IDE.

. **Project 2**
Project Title: Automatic Emergency Accident Alert System.
Project Details: Designed an Emergency Accident Alert System utilizing Arduino Nano, ADXL335 accelerometer, Neo6M GPS module, and SIM800L GSM module. Integrated sensors to detect accidents and trigger SMS and phone call alerts to nearby hospitals. Implemented live location tracking for precise emergency response. Ensured seamless hardware integration and optimized performance for real-time notifications. Demonstrated proficiency in Arduino programming, sensor interfacing, and GSM communication protocols for effective emergency communication systems.
Software used for this project: Arduino IDE.

- **Project 3**
Project Title: Automatic Irrigation System.
Project Details: An Automatic Irrigation System is a smart agriculture project that uses sensors and controllers to monitor soil moisture levels and weather conditions, automatically adjusting water flow to optimizecrop irrigation, conserving water, and improving crop yields.
Software used for this Project: Arduino IDE.

- **Project 4**
Project Title: wireless home automation system using Raspberry Pi.
Project Details: Designed and executed a comprehensive wireless home automation system leveraging Raspberry Pi technology. Integrated sensors, actuators, and a user-friendly interface for remote control and monitoring of various household devices. Enhanced convenience and efficiencyby enabling automated tasks and real-time status updates, optimizing energy usage and comfort.
OS used for this Project: RASBIAN.

EXTRACURRICULAR ACTIVITIES

Technical Team Leader - Tech Fest   📅 2021

Player, Cricket Team   📅 2022