NITTIN KUMAR

Bachelor of Technology
in Electrical Engineering
Indian Institute Of Technology, Ropar

+91-9817173406
2020eeb1186@iitrpr.ac.in
github/nkyadava15
linkedin.com/in/Nittin

Education

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.6 (Till 7th Sem)	2020-2024
Senior Secondary	Central Board of Secondary Education	96.6%	2020
Secondary	Central Board of Secondary Education	91.8%	2018

Experience

- **DIGINIQUE TECHLABS | REMOTE** *June 2023 - July 2023*
  *FULL STACK DEVELOPER INTERNSHIP | **Website** | **Github*** **Certificate**
  – Created a feature-rich Full Stack web application with frontend focusing on user interface elements, layouts, themes and visual components.
  – API implementations and logical features were created in Backend with an emphasis on server-side technology.
  – Used Firebase version 9 in combination with React JS and Firestore-Database for data operations, including powerful capabilities like Email and Google Authentication.
  – Implemented a feature where users may add currencies to their Watch-list and edit it as necessary to personalize their experience.

Projects

– **Smart Door Automation** *April 2023 - May 2023*
Electrical Core Engineering **Link**
∗ This project employs advanced embedded software for seamless control, offering features like remote access and biometric authentication. It transforms traditional doors into secure, intelligent portals, enhancing user convenience and safety

– **Wireless Mobile ECG Monitoring System with Microchip Technology** *Jan 2023 - May 2023*
Electrical Core Engineering **Link**
∗ Project focused on medical signal collection, with a particular emphasis on obtaining correct ECG signals utilising Microchip technology, was spearheaded.
∗ Developed a reliable wireless data transfer technique that allows for the smooth and real-time delivery of medical signals to mobile phones.
∗ Enhances accessibility and allows for immediate monitoring.
∗ Done this Project Under the guidance of **Prof. J.S. Sahambi**,Electrical Engineering professor at IIT Ropar.

– **Buck-Boost Converter Simulation for Solar Energy Systems** *Jan 2023 - May 2023*
Electrical Core Engineering
∗ Conducted MATLAB simulations for optimizing a Buck-Boost Converter in solar energy system. Led simulation efforts, focusing on dynamic behavior, parameter tuning, efficiency analysis, and voltage regulation.
∗ Applied MATLAB expertise in power electronics simulations, emphasizing control strategies for buck-boost converters.
∗ Utilized MATLAB to model and optimize buck-boost converter performance under varying solar conditions.
∗ Successfully validated and optimized the buck-boost converter design through MATLAB, achieving improved energy harvesting efficiency and stable output voltage.

– **Password Based Circuit Breaker Using Arduino** *June 2023 - July 2022*
Electrical Core Engineering **Link**
∗ This project focuses on a Password Circuit Breaker, prioritizing safety by automatically interrupting faults and limiting access to authorized personnel through password protection.

Technical Skills

–**Programming Languages**: C, C++,Python,HTML,CSS, JavaScript, React-JS, MongoDB,OOPS,Node-JS,Three-JS, ML
–**Tools**: Vs Code, Git, Github, LaTeX, MATLAB, Atom, SublimeText
–**Relevant Libraries**: Pandas, Numpy, Matplotlib,Streamlit, nltk, requests,Scikit-learn

Key courses taken

–**CSE & Maths**: Introduction to Computing & Data structure,Tinkering Lab, Calculus, Linear Algebra, Differential Equations, Signal & Systems, Cap-Stone Project.
–**Core**: Digital Circuits , Basic Electronics , Circuit Theory , Control Engineering.

Miscellaneous

– **Achievement 1**,CISF Director General Merit Award holder for highest percentage in 12th Class. **Link** *2020*
– **Achievement 2**,Prime Minister Scholarship Scholar for good in academics at College. **Link** *2022*
– **Achievement 3**, **National Service Scheme**, Member of the **"NSS Group"**, at IIT Ropar. *2022*
– **Achievement 4**,General Student Counselling Mentor, Mentored 1st year students. *2022*