VIKAS CHAUDHARY

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PROFESSIONAL EXPERIENCE

Project Intern | ISRO (Certificate)

Space Physics Laboratory, VSSC   **July 24 - August 24, Thiruvananthapuram**
- Developed firmware for a Multi-channel Sun Photometer to measure solar radiation intensity across multiple wavelengths and correlate with environmental data.
- Collaborated with cross-functional teams to support design reviews and provide development updates for this atmospheric research instrument.

Intern (Certificate)

ASF Insignia   **June 24 - June 24, Gurugram**
- Supported daily operations through system monitoring and fault diagnosis, while collaborating with interdisciplinary teams to apply electronics engineering principles.
- Provided technical support in maintenance, monitoring, and troubleshooting of critical systems at ASF Insignia, including electrical, mechanical, and control systems.

Intern (Certificate)

Approids Technologies   **September 23 - October 23, Remote**
- Developed a user-specific Android app integrating Firebase, APIs, and third-party libraries, with backend architecture for real-time data synchronization.
- Collaborated with cross-functional teams to build a Full Stack Mobile application, participating in code reviews and maintaining coding standards.

Team Lead | Smart India Hackathon, GOI (Certificate)   **October 23 - December 23**
- Led a six-member team which ranked Top 5 out of 157 to secure a spot in Grand Finale of the Smart India Hackathon (SIH) with the CAT project, fostering innovation and creative problem-solving.
  Achieved national recognition through effective leadership and team collaboration, demonstrating ability to compete at high-level technical challenges.

Team Lead | Build For Bharat, ONDC   **January 2024 - March 2024, Remote**
- Participated in a high-impact collaborative event aimed at developing innovative solutions for optimizing database management systems for both merchants and customers.
- Architected and implemented a database management solution that streamlined data processing and reduced latency by 30%, demonstrating expertise in scalable software design and performance optimization.

ENGINEERING PROJECTS

Development of Firmware for Handheld Multi-Channel Sun Photometer   **ISRO • July 24 – August 24**

PIC 18F4523, MikroC Pro for PIC, LM35, TIA, Photodiode
- Designed complex module systems integrating analog and digital circuits for high altitude applications, including microcontrollers, power supplies, and data acquisition systems.
- Captured schematics, completed PCB layouts, and conducted prototype testing, enhancing accuracy for atmospheric studies and advancing meteorology and climate research.

Kamre   **February 24 – April 24**

Kotlin, Realtime Database, Firestore, Firebase Auth, Android Studio
- Developed a scalable room rental Android application using Kotlin, Firestore, and Firebase Auth, enhancing property transactions by integrating real-time data synchronization and advanced user authentication.
- The app integrates advanced features to streamline the process of listing, searching, and renting properties, ensuring a seamless and efficient user experience.

NEWS Mania   **August 23 – September 23**

Kotlin, Recycler View, News API, Retrofit
- Engineered a real-time news delivery Android application using Kotlin, Retrofit, and News API, optimizing data retrieval and user interface to provide up-to-date news.
- The application efficiently fetches and displays the latest news articles, offering users a streamlined and user-friendly interface for staying informed.

Home Automation using IR Proximity Sensor (Link)   **March 23 - July 23**

LM358 IC, BC547 Transistor, IR Proximity Sensor, SPDT Relay
- Developed and implemented an innovative motion sensing light switch using IR proximity sensor for precise motion detection, integrating advanced components and fine-tuning for reliable performance.

Digital Alarm Clock (Link)   **August 23 - December 23**

8086 Microprocessor
- Engineered a digital alarm clock using 8086 microprocessors, implementing timekeeping, alarm setting, and user interface management functions.

EDUCATION

Bachelor of Technology in Electronics
Harcourt Butler Technical University • Kanpur, Uttar Pradesh • 2025 • CGPA: **7.88** (up to 6th Semester)

ENGINEERING SKILLS

C++, MikroC Pro for PIC, MATLAB, AIM SPICE, EMU8086, GNUSim8085, VHDL, Kotlin, Android Development, Firebase, Git, Retrofit, Flutter, Rest API.

POSITION OF RESPONSIBILITY

Publicity Head, Association of Electronics Engineers (AETE)   **March 23 – August 24**

Android Lead, GDSC   **August 23 – August 24**

Event Organizer, GDSC   **October 23**