PRADIPT **SHARMA**

Electronics Engineer

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SUMMARY

I am a dedicated Electronics Engineering graduate from Kathmandu Engineering College in 2021, possessing a strong foundation in electronics and engineering principles. My passion for advancing in integrated circuits, FPGA applications, and neural networks fuels my drive. I have also ventured into entrepreneurship, leading successful enterprises, namely Nepal Innovative Project Solution Pvt. Ltd. (NIPS) and Saptakrishi Scientific Pvt. Ltd. These endeavors exemplify my steadfast dedication to innovation and practical problem-solving in the real world.

EDUCATION

Kathmandu Engineering College (KEC)

Bachelor's Degree in Electronics and Communication Engineering (64.02%)
2016 – 2022

Kathmandu Model College (KMC)

Higher Secondary Education Board
+2 Science (77.7%)
2014-2016

Learning Realm International (LRI)

School level (85.3%)
2014

SKILLS

- Arduino/Microcontroller
- C/C++
- Python
- Electronic Design Automation
- Onshape(CAD)
- Fabrication of SOCs.
- Internet Of Things (IoT)

CERTIFICATIONS

- Runner up in CAN-SAT in AAVISKAR 2019
- Finalist in Aisec Nepal program 2019
- 2nd Runner up in VECTOR 2020
- Finalist in Idea Studio Nepal for E-braille 2021

PROFESSIONAL EXPERIENCE

Lead Electronics Engineer

Saptakrishi Scientific Pvt. Ltd. | 2022 - Present

- Led as Lead Electronics Engineer, overseeing end-to-end control system development.
- Devised an intricate hardware setup while actively immersed in detailed system coding.
- Contributions spanned from ideation to implementation, showcasing expertise in both hardware and coding.

Co-Founder | CTO

Nepal Innovative Project Solution Pvt. Ltd. (NIPS) | 2021 - Present

- Emphasizing innovation, problem-solving, and collaborative partnerships to drive success.
- Leading technology development, overcoming obstacles, and ensuring operational excellence.
- Effectively guided NIPS towards impactful solutions, promoting innovation and achieving continuous technology growth.

ACADEMIC PROJECTS AND RESEARCH

- **Dimension Measurement System (DMS)**: Utilized image processing and sensor system to measure cargo box dimensions with ±8 mm^3 accuracy.
- **E-Braille**: Developed prototype for converting text to braille using OCR and tactile design.
- **Data-Cube**: IoT Monitoring Utilized ESP8266 and Firebase for environmental monitoring, improving greenhouse farming via mobile app.
- **Improvised Cold Room**: Engineered control hardware, coding, and integrated features for enhanced fruit preservation.
- **Face Recognition Attendance System using CNN**: Implemented CNN-based face detection and recognition for accurate attendance recording as a part of academic Research.
- **GSM-Controlled Water Pump**: Designed a GSM-based system to activate the water pump via calls from a specific number, aiding water supply in Gulmi, Nepal.
- **Rocket Project**: Led avionics and communication systems for a successful sugar rocket launch. Achieved 2.5km altitude and Mach 3 speed.
- **Can-Sat**: Organized by Kathmandu University (KU) Robotics Club. As runners-up, designed Arduino-based satellite for data transmission and rover integration.