Prashant Pandey

Contact

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Experience

Field Engineer, *GE Healthcare*

October 2023 – October 2024

- Implementation Expertise: Successfully implemented advanced medical imaging solutions, including AI-powered systems.
- Technical Installations: Led the installation of Nepal's first AI-powered CT scan and multiple handheld ultrasound devices.
- Physics and Operation Knowledge: Gained a deep understanding of the physics and operational principles of MRI, CT scans, and ultrasound systems.
- AWS Integration: Worked with AWS installation and integration for medical imaging systems.
- Maintenance and Repairs: Performed routine maintenance and corrective repair tasks, ensuring optimal functionality of imaging equipment.
- Problem-Solving Skills: Acquired hands-on troubleshooting expertise through fieldwork, addressing technical issues effectively in real-world scenarios.

Intern, Nepal *Telecom*

January 2023 – February 2023

- Gained hands-on experience with Nepal Telecom's GSM architecture, focusing on network design and optimization.
- Learned to manage and optimize circuit-switched (CS) traffic for better network performance.
- Mastered VLAN concepts like tagging and trunking to enhance GSM network efficiency.
- Contributed to network segmentation strategies, boosting security and performance.
- Collaborated with senior engineers to troubleshoot issues and improve reliability.
- Built strong analytical and problem-solving skills by working directly with telecom operations.

Projects

IR Remote Control Switch First Year Project

This allows simple IR remote to control home appliances using relay switches.
https://drive.google.com/file/d/1sfPOK_1mXSzppGw5eBvsj9aPNHr3wh3S/view?usp=sharing

Object Counter Second Year Project

The object counter is used to count the number of objects moving in a predefined path, and is commonly used in industrial settings to automate the counting of manufactured goods.
https://drive.google.com/file/d/1iUuuw1ID1D5TlDMvMsqVYKDJAV1WmDUW/view?usp=sharing

Automated Drip Irrigation System

Utilizing LoRa as trans receiver to transmit various parameter data of field measured using sensors and utilized relay system to automate irrigation system.
https://drive.google.com/file/d/1_jheOw5IV3rkfSHe5GgiXQISnA4wm_Ym/view?usp=sharing

Performance Analysis of NOMA

Study of NOMA structure and it's possible application in cellular communication.
https://drive.google.com/file/d/1_ELC6nh0v9XrsWvqgz_BqAY4lG7ykNK7/view?usp=sharing

Education

Institution	Level	Cumulative GPA/4.0
Kathmandu University	Bachelor of Engineering	3.42
Oxford English School	10+2 Science	3.14
Sakura Memorial Boarding School	School Leaving Certificate	3.45

Skills

C/C++| Python| MATLAB & Simulink| Proteus| Cisco Packet Tracer| Medical Devices| Imaging| HDL| VIVADO| MS Office

Attention to detail| Analytical thinking| Problem-solving

Written and oral communication (English| Nepali| Hindi)

Reference

Dr. Ram Kaji Budhathoki

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