Prince Khand Thakuri

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Summary

Electronics Engineering graduate with strong hands-on experience in test automation, measurement, EMC, and hardware validation. Skilled in LabVIEW, NI TestStand, SCPI-based instrument control, and RF/EMC testing, with additional experience in embedded systems and MATLAB/Simulink modeling. SFS 6002 certified, with a practical mindset suited for Test / Test Automation Engineer roles.

Experience

Metropolia University of Applied Sciences, Finland Oct 2025 – Dec 2025
Student Assistant – Electronics (Internship) Myllypurontie 1, Helsinki, Finland
🔗 https://www.metropolia.fi/fi

- Supported embedded systems programming and testing in laboratory environments
- Performed equipment testing, maintenance, and troubleshooting
- Assisted in electronics laboratory sessions and student experiments
- Designed and produced 3D-printed components for lab and project use

Lähi-Lataus Oy, Vantaa, Finland Apr 2025 – Aug 2025
Electrical Installation Trainee / Technician (Part-time)

- Assisted in design and installation of solar PV systems
- Installed and commissioned electric vehicle (EV) charging systems
- Performed electrical wiring, connection, and on-site troubleshooting
- Worked according to Finnish electrical safety standards (SFS 6002)
- Supported field installations and technical documentation

Education

Metropolia University of Applied Sciences, Finland August 2022 - December 2025
Electronics Engineering Bachelor of Engineering

Relevant coursework

- Electromagnetic Compatibility (EMC)
- Mathematical Methods in Electrical Engineering and Automation Technology
- RF and Analog Electronics
- Embedded Systems & Measurement Labs

Projects

Raspberry Pi RetroPie Hardware Project
🔗 https://github.com/VenomPrince/Retropie-journey
Raspberry Pi 3

- Installed and configured RetroPie OS
- Performed hardware wiring and troubleshooting of boot and power issues
- Designed and 3D-printed custom Raspberry Pi enclosures for lab use
- Integrated temperature monitoring using NTC thermistors
- Built manual electronic circuits using resistors and transistors (no microcontroller)
- Considered power regulation and thermal behavior of the system during operation

Automated Test Environment for RIAA Amplifier with SCPI Commands, TestStand and LabVIEW
🔗 https://urn.fi/URN:NBN:fi:amk-2025120933976

- Designed a fully automated test system using LabVIEW and NI TestStand
- Implemented SCPI-based instrument control without vendor-specific drivers
- Built a LabVIEW state machine for reliable sequencing and safety handling
- Automated frequency sweep testing with FFT and THD% analysis
- Integrated DAQ-based multi-point measurements (TP1–TP6 + output)
- Developed TestStand sequences with pass/fail logic and automated reporting

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Skills

Measurement & Test Equipment
Hands-on experience measuring, validating, and troubleshooting electronic circuits using lab instruments.
● ● ● ● ○

Test Automation & Software
Automated test development using LabVIEW and TestStand with SCPI-controlled instruments.
● ● ● ● ○

Electronics & Hardware
Strong foundation in analog/digital electronics, circuit analysis, and hardware fault diagnosis.
● ● ● ● ○

EMC & RF
Understanding of EMC/EMI principles, RF measurements, grounding, and noise mitigation.
● ● ● ● ○

Embedded & Systems
System-level hardware integration using Raspberry Pi, sensors, and power regulation.
● ● ● ○ ○

Mathematical & Analysis Tools
Applied mathematical modeling, signal processing, and system analysis using MATLAB & Simulink
● ● ● ○ ○

Interests

Machine Learning, AI LLMs, Electronics, Soldering

Certifications

SFS 6002 Electrical Safety Training (Finland) December 2025
SETI
🔗 https://princeesf.fi/

Degree Certificate
Metropolia University of Applied Sciencs
🔗 https://princedegreecertificate.fi/

Languages

English
● ● ● ● ●

Finnish
● ● ○ ○ ○

Hindi
● ● ● ● ●

Nepali
● ● ● ● ●