Prince Khand Thakuri

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Summary

Experienced in electronics and software, including LabVIEW, NI TestStand, KiCad and MATLAB. Skilled in PCB design, EMC testing, and prototyping, with experience working with circuit boards and laboratory equipment. Proficient in hand soldering and conducting experiments in lab environments.

Experience

Metropolia Univeristy of Applied Science **Ocotber 2025 - Ongoing**
Lab Assistant Myllypurontie 1, Helsinki, Finland
https://www.metropolia.fi/en

1. Performed routine maintenance, calibration, and operational checks on a range of laboratory equipment, including Spectrum Analyzers, Vector Network Analyzers (VNAs), and power supplies.
2. Diagnosed hardware and software issues, troubleshooting and repairing malfunctioning equipment to minimize lab downtime.
3. Designed, fabricated, and assembled custom components and test setups to support ongoing research and development projects.
4. Maintained a clean, safe, and organized laboratory environment, ensuring all equipment was properly stored and operational.

Lähi-Lataus Oy **April 2025 - August 2025**
Electrical installation Trainee
https://lahilataus.com/

Worked as an Electrical Installation Trainee at Lahi Lathus Oy (April 2025 – August 2025), gaining hands-on experience in wiring, installation, and maintenance of electrical systems, including single-phase and three-phase setups, plugs, and AC systems. Involved in the design and installation of solar power systems (Aurinkosähköjärjestelmien) and electric vehicle charging systems (sähköajoneuvojen latausjärjestelmien), enhancing practical skills in renewable energy and EV infrastructure.

Posti Group Oyj **March 2023 - Present**
Part time Newspaper Delivery Vantaa
https://www.posti.com

Working as a part time early morning newspaper delivery person.

Education

Metropolia University of Applied Sciences **August 2023 - Ongoing**
Bachelor's in Electronics Engineering Bachelors Degree
4.5
https://www.metropolia.fi/fi

Shree Shitaladevi **2020 - 2022**
Science and Mathemathics Higher Secondary

Bethany Boarding Secondary School **2011-2020**
Mathemathics Secondary Education

Projects

Automated Test System for Amplifier
Created a complete test system for a RIAA amplifer.

I developed a complete automated RIAA amplifier testing system using LabVIEW and TestStand. The system measures various test values from the amplifier's test points and main signal output, then compares these real-world measurements with simulated reference values. Based on this comparison, the system determines whether the PCB is functioning correctly and suitable for use. This ensures that each unit meets the intended performance requirements.

Digital Clock from Scratch
Built a digital clock from scratch using 74LS ICs, 555 timers, and 7-segment displays; designed and soldered PCB.

Designed and implemented a fully functional digital clock entirely in hardware. Used 74LS series ICs, 555 timers, and six 7-segment displays to create the logic circuit, simulated in Multisim, designed the PCB, and soldered all components. Demonstrates strong skills in digital logic design, circuit simulation, PCB fabrication, and hands-on hardware integration.

Distance sensor toy car
Ultrasonic sensor-based motor control with obstacle detection

Arduino-based toy car using an ultrasonic sensor, 2×16 LCD, and motor drivers. Automatically detects objects, stops, and reverses, demonstrating sensor-based motion control and automation.

Portfolio Website
A personal website for myself
https://princekhandthakuri.netlify.app

Skills

Software & Tools
LabVIEW, TestStand, MATLAB | Network Analyzers, Multimeter, soldering iron, oscilloscope, power supply, function generator, Signal generators, power tools | VSCode, Arduino IDE, ESP-IDF, Jupyter Notebook | Web basics: HTML, CSS
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Electrical & Electronics
| PCB design, soldering, circuit troubleshooting | EV chargers & solar panel installation | Single-phase & three-phase wiring | AC systems, plugs, power distribution
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Embedded Systems & IoT
Arduino, ATmega, ESP32, AVR projects | Sensors, actuators, motor drives, I2C displays | Embedded programming: C, C++, Python
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Methodologies & Projects
Team-based innovation projects, Agile workflows | QA, testing, troubleshooting | Quick learner, problem-solving, clean design
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Languages

Finnish
Basic conversational, can read, write, and understand everyday Finnish
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English
Fluent (reading, writing, speaking)
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Nepali
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