Prasiddha Siwakoti

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Education

2017–2020 **MSc in Information and Communication Engineering**, *Institute of Engineering,Pulchowk Campus, Tribhuvan University*, Lalitpur, Nepal, *(Score: 83.13%)*
- Thesis Title "Classifiable Handwritten Characters Image Super-Resolution Using a Generative Adversarial Network "

2012–2016 **BE in Electronics and Communication Engineering**, *Himalaya College of Engineering, Tribhuvan University*, Lalitpur, Nepal, *(Score: 74.51%)*
- Thesis Title "Integrated Biometric Access Control System"

Research Experience

October 2015– April 2016 **Research Intern** , *LogicTronix* , Lalitpur, Nepal
- Studied FPGA IP development and hardware design.
- Hands-on experience using Xilinx development environments, such as Vivado and ISE.
- Worked on projects involving custom IP core development and hardware design

Publications

P. Siwakoti and S. K. Ghimire. Devnagari Handwritten Characters Image Super-Resolution based on Enhanced SRGAN. *Journal of the Institute of Engineering*, 16(1):103–109, 2021.

Teaching Experience

Octber 2017–April 2018 **Part-time Faculty**, *Faculty of Management, Nepal Commerce Campus, Tribhuvan University* , Kathmandu, Nepal
- Delivered computer graphics lectures to undergraduate students on topics such as raster and vector graphics, 2D and 3D transformations,shading and rendering.
- Conducted labs and provided guidance to students to reinforce concepts learned in lectures.
- Prepared and graded exams, assignments, and lab reports

April 2016 -October 2016 **Assistant Instructor**, *LogicTronix Nepal* , Lalitpur, Nepal
- Assisted in teaching tools: Xilinx Vivado and ISE, Languages: VHDL and Verilog to undergraduate students in a digital design course

Work Experience

2018–Present	**Telecom Engineer** , *Nepal Telecom* , Kathmadu, Nepal
	○ Integrated Maintenance: Maintained and optimized multi-service networks, including GSM, LTE, Fiber and Microwave links, identified and resolved network issues to minimize downtime
	○ Transport Network: Managed and optimized Multivendor Routers and Switches in both L2 and L3 layer both logically and physically
	○ Automation: Implemented network and system automation tools in Python using Netmiko, Napalm, and Nornir, to automate network configuration, deployment, and monitoring tasks
October 2016–April 2017	**RF Engineer** , *Subisu Cablenet Ltd.*, Kathmandu, Nepal
	○ Worked on Docsis technology

Projects and Presentations

Presentation	Presented project at 7th National Conference on Science and Technology, By NAST
Image Processing	Integrated Biometric Access Control System
ML	Generating Digits Using GAN

Skills

Programming	Python, JS, C/C++
Machine Learning	Classification, Regression, Clustering, Deep Learning, GAN
ML Tools	TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy
Networking	Switching: vlans, Routing: ospf, isis, vpls(martini), ibgp, vrf
Automation	Netmiko, Napalm, Nornir
Languages	English (fluent), Hindi (fluent), Nepali(Proficient)

Awards and Scholarships

1st Prize	Won the First National FPGA Competition
Scholarship	Partial Scholarship offered by Himalaya College of Engineering for B.E
Scholarship	Full Scholarship for studying High School (10+2) By Higher Secondary Education Board

References

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