Rohit Bhusal

Nationality: Nepalese   **Date of birth:** 26/11/1998   **Gender:** Male   📞 **Phone number:** (+977) 9847027176

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📍 **Home:** Lalitpur, 45210 Thasikhel (Nepal)

ABOUT ME

Recent Electrical and Electronics Engineering Graduate from Kathmandu University, Dhilikhel, with a CGPA of 3.39. I am a passionate engineer interested in communication systems, satellites, and signal processing.

WORK EXPERIENCE

Assistant Server Administrator
Press Council Nepal [10/01/2023 – 10/02/2023]

City: Sanchargram
Country: Nepal

One month-long internship program at Press Council Nepal.
- Server Monitoring
- Study on the new system
- Network Design Training
- Server and Storage Training
- Planning

Raspberry Pi Instructor
Society of Electrical and Electronics Engineering (DoEEE - KU) [10/07/2022 – 08/11/2022]

City: Dhulikhel
Country: Nepal

- Design Course Material
- Give hands-on training
- Explain the concept of GPIO and Networking
- Remort access of Raspberry Pi

Event Head
Society Of Electrical and Electronics Engineering (DoEEE - KU) [11/09/2022 – 14/09/2022]

City: Dhulikhel
Country: Nepal

- Planning and Studying Feasibility
- Designing the Flow
- Handling the Crowd
- Mentoring

Project Lead
Orion Space [05/02/2022 – 09/12/2022]

City: Sallaghari
Country: Nepal

- Designing Antenna
- Studying Orbits (LEO) and Satellite Technology
- Getting familiar with Satnogs.

Digital Twin Development Section, IT Engineering department (Internship)
Smart Escape Inc. [01/09/2023 – 31/10/2023]

City: Tokyo
Country: Japan

- Learned Game Development in Unity
- Learned 3D Model Making and Photogrammetry using Reality Capture
- Learned Web development using HTML, CSS, JS, & Node.js
- Learned Japanese Language

EDUCATION AND TRAINING

School Leaving Certificate - Secondary Education
Bhupu Sainik Secondary School [17/03/2001 – 17/02/2015]

City: Banganga
Country: Nepal
Final grade: 73%

National Education Board - High School
Kalika Secondary School [04/03/2015 – 13/03/2017]

City: Butwal
Country: Nepal
Website: https://kalikaschoolbtl.edu.np/
Field(s) of study: Science
Final grade: 74%

Undergraduate
Kathmandu University [09/08/2018 – 10/06/2023]

City: Dhulikhel
Country: Nepal
Website: https://elec.ku.edu.np/
Field(s) of study: Engineering, manufacturing and construction
Final grade: 3.39/ 78%

Undergraduate Fellowship
Julius-Maximilians-Universität Würzburg [17/04/2021 – 14/11/2022]

City: Würzburg
Country: Germany
Website: https://www.uni-wuerzburg.de/en

PROJECTS

Battery Level Indicator
[03/03/2019 – 07/07/2019]

Prototype design of battery level indicator which indicates the battery percentage at 5 different levels.

Intercommunication System
[04/04/2020 – 03/03/2021]

We designed five nodes with central control Intercommunication System to facilitate voice communication between the nodes. The connection between the nodes is made only when the nodes are accessible. The working prototype was made without using any microprocessor/ microcontroller but with the ICs like multiplexers, demultiplexers, flip flops, gates, counters, level shifters, etc. The overall working prototype was achieved on a breadboard. While designing the prototype, one of the complex parts was dealing with the timing signal, but we acquired it in the lab using a 555 timer IC and counters.

IOT based Home Appliances Monitoring and Management System

[03/04/2021 – 04/10/2022]

Design of fully functioning IOT-based Home Appliances Monitoring And Management System. The system consists of Raspberry Pi and other electronic components to fulfill the project objectives. The design has Internet and Intranet modes which change automatically depending on the availability of the Internet connection. Data related to appliances were stored on My SQL server in local and remote databases (Azure).

Image Transfer using SSDV Protocol

[03/07/2022 – 05/03/2023]

Designed and Build a Slow Scan Digital Video (SSDV) based system to transfer the images from Low Earth Orbit (LEO) using nanosatellites to Earth's ground station. The study focused on implementing and testing the system for image transfer in a very small Line of Sight (LOS) time available with a satellite in orbit.

LANGUAGE SKILLS

Mother tongue(s): **Nepali**

Other language(s):

English	**Hindi**
LISTENING C1 **READING** C2 **WRITING** C1	**LISTENING** C1 **READING** A2 **WRITING** B1
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1	**SPOKEN PRODUCTION** A2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Programming

C++ / C / Python / Java / Managing Databases (MySQL) / Linux (OS) / Node.js / Javascript / HTML / Reality Capture / Unity Engine / CSS / C#

Electronics & Simulation

PCB design (Eagle - KiCAD) / LT - Spice / Optisystem / GNU Radio / Cisco - Packet tracer / Remote Support Tools / Proteus/Multisim / Raspberry Pi / Matlab/Simulik / Wireshark / GNS3 / Arduino / NS2 Simulator

Presentation & Writing

Public-Speaking / Microsoft Azure, Microsoft 365 / Presentation Techniques and Teamwork / Academic and Technical Writing

RECOMMENDATIONS

Head of Department, Kathmandu University

Name: Ram Kaji Budhathoki, PhD
Phone number: (+977) 9851183818
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Professor, Kathmandu University

Name: Bhupendra Bimal Chhetri, PhD
Phone number: (+977) 9841301829
Email: bhupendra.chhetri@ku.edu.np

Assistant Professor, Kathmandu University

Name: Anup Thapa, PhD
Phone number: (+977) 9851116884
Email: anup.thapa@ku.edu.np