



Hari Bhusal

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Home: Herman Kraggs Vei 11, Room 23, 7050 Trondheim (Norway)

EDUCATION AND TRAINING

Master's in Electronic Systems Design

Norwegian University of Science and Technology [23/08/2021 – 30/12/2023]

Address: Gløshaugen, 7034 Trondheim (Norway)

Website: <https://www.ntnu.edu/>

Thesis: Impact of Augmented Reality Sandbox on user Interactivity and Engagement

Bachelors in Electrical and Electronics Engineering

Pokhara University [01/08/2015 – 01/09/2019]

Address: Lekhnath 33700, Pokhara (Nepal)

Website: <https://pu.edu.np/>

Thesis: Designing a Real-Time Solar Tracking System

PROJECTS

Augmented Reality (AR) Sandbox

[23/08/2022 – 11/09/2023]

An Augmented Reality Sandbox is a tool that can be used to visualize and understand geospatial data, such as topographic maps and terrain models, in an interactive and immersive way.

Responsibilities:

- Developed the concept of using an AR sandbox to enhance interactive learning and performed extensive research to validate the idea.
- Designed the system architecture, including hardware and software components, to create a seamless user experience.
- Built a prototype of the AR sandbox and integrated AR technology to create a multi-sensory educational tool.
- Analyzed data collected during user testing to refine the AR sandbox and optimize its performance.

Real-Time Solar Tracking System

[05/04/2019 – 01/09/2019]

This system helps to track the trace of sunlight with the help of altitude and azimuth angle, which will cause better alignment of the photovoltaic array and harvest the maximum solar power.

Responsibilities:

- Designed and built a real-time solar tracking system using microcontrollers and sensors.
- Conducted experiments and gathered data to validate the system's accuracy and effectiveness.
- Implemented real-time data visualization and analysis using IT tools to improve system performance.

DIGITAL SKILLS

Programming Language

Python

Front-end Technologies

HTML / CSS / Bootstrap / JavaScript / React / Git / GitHub

EDA Tools

Keysight ADS / Cadence Virtuoso

Miscellaneous

MATLAB

LANGUAGE SKILLS

Mother tongue(s): **Nepali**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Norwegian

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

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

VOLUNTEERING

Nepal Scouts, Volunteer

[Nepal, 15/02/2010 – 15/03/2011]

Responsibilities:

- Led and implemented health programs aimed at promoting wellness and hygiene in the local community.
- Coordinated and participated in plantation initiatives to enhance the local environment and promote sustainability.
- Contributed to community beautification efforts by organizing and conducting clean-up campaigns in local areas.
- Conducted awareness programs to educate the community on the importance of environmental conservation and sustainable practices.
- Provided assistance to those in need by distributing food and clothing to families and individuals facing difficulties.

RECOMMENDATIONS

Professor

Name: Andrew Perkis

Phone number: (+47) 73592383

Email: andrew.perkis@ntnu.no

Andrew Perkis serves as a professor within the Department of Electronic Systems at the Norwegian University of Science and Technology. His primary research interests currently revolve around the convergence of art and technology, exploring content representation methods and functionality, quality assessment, and their integration into the media value chain. His practical applications center on art's role in public spaces, the intersection of design and place, sensor-driven digital storytelling, and innovative business models tailored to the creative and media industry.

Link: <https://www.iet-multimedialabs.org/senseit/>

Cloud Engineer

Name: Aabhusan Maharjan

Phone number: (+47) 96812010

Email: aabhusan.maharjan@signicat.com

As a dedicated Cloud Operations Engineer at Signicat, he excels in the dynamic domains of microcontainer technologies, Kubernetes, Docker, Continuous Integration/Continuous Deployment (CI/CD) pipelines, and cloud solutions encompassing AWS, GCP, and Azure.