



# Hari Bhusal

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## EDUCATION AND TRAINING

### Master's in Electronic Systems Design

**Norwegian University of Science and Technology** [ 23 Aug 2021 – 30 Dec 2023 ]

**Address:** Gløshaugen, 7034 Trondheim (Norway) | **Website:** <https://www.ntnu.edu/> | **Thesis:** Impact of Augmented Reality Sandbox on user Interactivity and Engagement

### Bachelor's in Electrical and Electronics Engineering

**Pokhara University** [ 1 Aug 2015 – 1 Sep 2019 ]

**Address:** Lekhnath 33700, Pokhara (Nepal) | **Website:** <https://pu.edu.np/> | **Thesis:** Designing a Real-Time Solar Tracking System

## WORK EXPERIENCE

### Product Engineer

**Delta Electronics** [ 17 Jun 2024 – Current ]

**City:** Drammen | **Country:** Norway

#### Responsibilities:

- Manage and update the Bill of Materials (BOM) for products using PTC (Windchill).
- Address and resolve component shortage issues to ensure uninterrupted production
- Coordinate with R&D and production teams for product upgrades and process improvements.
- Investigate and solve field issues while supporting production processes to maintain efficiency and product quality.

### Electronics Engineer

**Unique Energy Private Limited** [ 4 Nov 2019 – 17 Dec 2020 ]

**City:** Kathmandu | **Country:** Nepal

#### Responsibilities:

- Preparation of subsidy documents for the institutional photovoltaic system.
- Design, component selection, and installation of an institutional photovoltaic system for 1 kWp and 2 kWp systems.
- Providing training for solar technicians.

## PROJECTS

[ 23 Aug 2022 – 11 Sep 2023 ]

**Augmented Reality (AR) Sandbox** 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.

[ 5 Apr 2019 – 1 Sep 2019 ]

**Real-Time Solar Tracking System** 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

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**Product Life Cycle Management**

PTC Windchill / SAP

**Programming Language**

Python

**Front-end Technologies**

HTML / CSS / JavaScript / React / Git / GitHub

**Miscellaneous**

MATLAB / Cadence Virtuoso

## LANGUAGE SKILLS

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**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

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[ 15 Feb 2010 – 15 Mar 2011 ] Nepal

**Nepal Scouts, Volunteer 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