

# SUBIN KHATIWADA

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## Summary

Mechatronics Engineer specializing in mechanical design, control systems, and software development. Experienced in integrating mechanical systems with innovative computing solutions and skilled in data analysis, machine learning and full stack web development. Proven track record in project execution across academia and industry-standard practices, with a strong passion for collaborative and dynamic environments.

## Skills

- Mechatronics and Control System
- Mechanical Systems Design and Optimization
- Design Engineering, CREO and Solid Works
- Machine Learning and Data Analysis
- Programming and Software Development (Python, Matlab)
- Full-Stack Web Development (MERN stack, PostgreSQL, ORM, Docker, Kubernetes, Linux, AWS)
- Technical Problem Solving
- Project Documentation and Team Collaboration

## Experience

- 08/2024 - Current  
Lappeenranta-Lahti University of Technology (LUT)  
Lappeenranta, Finland  
**Mechatronics Engineering and Data Science**
  - Developed control system models for mechatronic machines, analysing system dynamics and behaviour.
  - Modeling of a hydraulically driven crane with Solidworks and performing simulation with Simscape Multibody.
  - Built machine learning models including deep learning models like RNN, CNN and Transformer architectures.
  - Worked on NASA Turbofan Jet Engine Data for RUL predictions and developed forecasting model for large sequential data like Amazon stocks.
- 01/2024 - 03/2024  
NEAR Protocol Hackathon  
**Hackathon Participant**
  - Developed a decentralized file storage system using the NEAR SDK and NEAR API integrating Next.js, React, TypeScript, Tailwind CSS for a seamless user experience.
  - Implemented a transaction-based fee system with secure NEAR Wallet authentication, allowing users to upload, download, and share files via IPFS.
- 10/2023 - 03/2024  
Broadway Infosys Pvt. Ltd.  
**Web & Software Development**
  - Developed a comprehensive online shopping platform from scratch, enabling seamless customer interactions with features like authentication, product management, and secure transactions.
  - Built various websites and full-stack applications using the MERN stack, SQL, JavaScript, TypeScript, MUI, tailwind and industry-standard practices.
- 10/2020 - 06/2023  
Subimala Oy | 3247617-7  
Hyyinkää, Finland  
**Business Owner & Partner**
  - Managed and operated Subimala Oy under a business ID as a light entrepreneur, handling business operations, financial management ensuring compliance with business regulations.
  - Gained hands-on experience in running and leading a company, including budgeting, pricing, and

customer engagement.

- Enhanced skills in entrepreneurship, business management, and problem-solving, contributing to professional and personal growth.

05/2014 - 08/2014

Greenrail Oy  
Finland

#### **Summer Trainee – Product Development**

- Designed and developed a CAD model and built a food stall prototype as part of a product development initiative
- Supported the technical team with product design and contributed to technical documentation.

## **Education and Training**

Expected in 12/2025

Finland

#### **Master of Science (MSc)** in Mechatronics System Engineering

Lappeenranta-Lahti University of Technology (LUT)

- Thesis left for completion
- Key Courses: Control Systems for Mechatronic Machines, Modeling and Simulation of Multibody Systems, Fluid dynamics, Machine Dynamics, Fundamentals of Programming with Python, Linux Foundations, Advanced Data Analysis & Machine Learning
- Projects: Modeling, simulation and design of a control algorithm for hydraulically driven crane. Building machine learning models for predictive maintenance, PCA, K-PLS analysis, and regression models. Designing and training deep learning models.

07/2016

Finland

#### **Bachelor of Engineering (BEng)** in Mechanical Engineering & Production Technology

Häme University of Applied Sciences (HAMK)

- Major: Mechanical Engineering and Production Technology
- Projects: Mechanical system design, workshop automation, product development and technical documentation.

## **Websites, Portfolios, Profiles**

- LinkedIn: <https://www.linkedin.com/in/subin-khatiwada-0278282a4/>
- Github: <https://github.com/Sub1nn>
- Portfolio: <https://bold.pro/my/subin-khatiwada-250324120450>

## **Languages**

- English, Fluent (4/5)
- Finnish, Conversational (2/5)
- Nepali, Native (5/5)
- Hindi, Fluent (4/5)

## **Personal Information**

Hobbies:

Technology & Innovation: Enthusiast in AI, automation, web technologies

Travel: Passionate about exploring new cultures and gaining fresh perspectives.

E-sports & Gaming: Enjoy competitive gaming and strategic thinking through e-sports.