

# Nebojsa Jovanovic

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(<https://github.com/NebojsaJovanovic95>)

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## Professional Summary

**Mechanical Engineer and Software Developer** with over 5 years of experience at Hatch developing technology solutions for industrial and energy systems. Combines strong analytical and engineering principles with modern software development skills across **C++, Python**, and cloud platforms. Experienced in designing control systems, automation tools, and intelligent data-driven applications for large-scale infrastructure projects.

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## Technical Skills

**Engineering & Software:** Systems design, automation, real-time data systems

**Languages:** C, C++, Python, Go, JavaScript, C#, Shell, SQL

**Frameworks / Tools:** Flask, Django, Aiohttp, Angular, PyTorch, CUDA

**Tools & technologies:** Linux, Docker, Podman, K8S, Nvim, Git, Azure DevOps

Databases: Postgresql, MongoDB, SQLite

**Networking:** HTTP, TCP/IP

**Cloud:** Azure ML, Azure DevOps

**Core Competencies:** Full-stack engineering, machine learning integration, control systems, edge devices

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## Professional Experience

**Hatch Ltd.** – *Mechanical Engineer / Software Developer*

Toronto, ON | Jan 2020 – Present

- Co-developed **VISTA**, a real-time hydro energy plant operating system written in **C++ and C#**, integrating control logic with industrial automation systems.
  - Delivered a **computer vision solution** for **Onaping Depth Mine**, using **Python (Flask, PyTorch)** and **Angular** to enhance safety and operational efficiency.
  - Designed and deployed an **edge computing system** for field-level monitoring and ML model execution.
  - Collaborated with multidisciplinary teams to modernize legacy tools and automate data workflows.
  - Applied **Azure ML** and **Azure DevOps** to streamline experimentation, deployment, and monitoring processes.
  - Developed and tested personal software tools, including a **custom web framework** and **in-memory database** for R&D use.
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## Education

**Bachelor of Applied Science in Mechanical Engineering**

University of Toronto, Toronto, ON (2020)

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## Projects

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### Computer Vision Platform on Edge Device (**Personal Project**)

(<https://github.com/NebojsaJovanovic95/edge-device.git>) - Fully on-prem scalable infrastructure for building computer vision applications using Yolo - Adding and managing RTSP cameras, enables querying data for building business logic derived applications.

**Energy Plant Optimization Tool (Hatch)** – Implemented modules for data ingestion and performance analysis in C++.

**Custom C++ Framework (Personal)** – Built an HTTP server and lightweight DB engine to understand systems-level architecture.

**Computer Vision Mining Project (Hatch)** – Deployed camera-based inspection and analysis tools powered by Yolo.

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## Interests

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Applied AI in industry, control systems, energy technologies, and embedded software.