

Nikita Upadhyay

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EDUCATION

University of Guelph

September 2024 – April 2029

Bachelor of Engineering, Co-op Engineering Systems & Computing

WORK EXPERIENCE

Siemens RUGGEDCOM, Strategic & Lean Transformation | Data Analyst Intern

May 2026 – August 2026

Concord, ON

- Developed and standardized **10+ automated reporting workflows** using **Python, SAP, SQL, Excel, and Microsoft Power Platforms**, reducing manual reporting effort and improving operational visibility across **8+ cross-functional teams**.
- Built and optimized **SQL queries, reporting pipelines, and interactive Power BI dashboards** by transforming complex operational datasets into actionable KPI reports, improving reporting accuracy by 30%.
- Coordinated **reporting and strategic transformation initiatives** for the major Peterborough Project, collaborating with NPI, R&D, Finance, Hardware, Manufacturing, and Operations to streamline communication, align project deliverables, and support data-driven decision-making.

City of Brampton, Economic Development Office | Innovation & Technology Intern

May 2025 – April 2026

Brampton, ON

- Supported **30+ technology startups** within Brampton's innovation ecosystem by contributing to project coordination, operational analysis, and process improvement initiatives that enhanced program delivery, scalability, and startup readiness.
- Automated **KPI tracking, reporting, and internal workflows** using Excel-based dashboards while coordinating stakeholder meetings, city-wide innovation events, and cross-functional initiatives, improving reporting accuracy.

PROJECTS

Integrated Mechanical Motion Toy | ENGG2100: Engineering Design II

January 2026 – April 2026

SolidWorks, FDM 3D Printing, GD&T Fundamentals | Testing & Validation, Manufacturing Planning & DFM, System Integration

- Coordinated a **multidisciplinary 12-week design-build project** with a team of 6 through concept development, prototyping, and final delivery while managing weekly progress meetings and ensuring **100% on-time milestone completion**.
- Managed cross-functional integration** of design, manufacturing, cost analysis, and testing activities, overseeing 30+ SolidWorks components and aligning project execution with strict safety, size, and performance constraints.

Academic Database Management System | ENGG1420: Object Oriented Programming

January 2025 – April 2025

Java, JavaFX, Scene Builder | Role-Based Access Control, Data Visualization, User-Centered Design

- Developed a **structured academic data management system** in a 4-member team, modeling relational across 3 user roles, automating record processing and manual handling by through authentication, ID generation, and enrollment tracking logic.
- Built analytics-driven **JavaFX dashboards** with role-based insights into enrollment trends, course capacity, and academic performance, improving task efficiency and completion time by ~30% while enhancing data visibility for users.

CAMPUS INVOLVEMENT

Guelph Engineering Professional Development (GEPD) | Co-President

May 2025 – Present

University of Guelph, College of Engineering & Physical Sciences

- Lead a **25-member executive team across 5 portfolios** to plan and execute **5+ large-scale professional development initiatives** annually, overseeing end-to-end program delivery, resource allocation, and stakeholder coordination with faculty and external partners.
- Manage scheduling, logistics, and execution of 10+ technical workshops** per term, coordinating cross-functional teams and operational workflows while driving a ~30% increase in student participation through improved program structure.

SKILLS

Languages: Java • Python • SQL • C/C++ • VHDL • HTML • CSS

Data & Analytics Tools: Excel (Power Query, PivotTables, data modeling functions) • Power BI (KPI dashboards, reporting) • Power Automate • SQL (data querying & analysis) • SAP (data extraction & reporting) • KNIME (data workflows & analytics)

Tools & Frameworks: JavaFX • Scene Builder • Git • SAP • KNIME • AutoCAD • FPGA Development Tools • Arduino UNO