Louis Nguyen

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EDUCATION

University of Guelph **Expected: April 2029**

Bachelor of Computing, Software Engineering (Co-op) *Guelph, Ontario*

- **GPA: 3.84/4.0**, Entrance Scholarship: **$1000**, Dean's List: Fall 2024
- **Relevant Coursework:** Intermediate Programming, Web Development, Software Design, Statistics, Linear Algebra

TECHNICAL SKILLS & INTERESTS

Languages: C, Python, HTML/CSS, SQL, R
Technologies/Frameworks: Pandas, Matplotlib, Seaborn
Developer Tools: Git, GitHub, GitLab, VS Code, Linux, Bash, Excel, PostgreSQL, ChatGPT, Claude, Cursor
Interests: Powerlifting, E-sports (Semi-finalist), Video editing (Adobe After Effects), Content creation (40,000+ views)

EXPERIENCE

Linamar Corporation **July 2024 – August 2024**

CNC Machine Operator & Quality Control Inspector *Guelph, Ontario*

- Produced **over 450** precision sun gears per shift for **Chrysler** and **Autocom** by simultaneously operating **3 advanced CNC machines**, optimizing part flow to ensure consistent throughput in a high-volume environment.
- Ensured parts met tight tolerance standards of **±0.002mm** by managing and replacing **4+ tooling and inserts**, preventing defects such as rust, burrs, non-cleanup, and dimensional deviations throughout the production process.
- Increased machine cycle times by **22%** by adjusting **feed rates** and **spindle speeds** based on material conditions.
- Performed **first-off inspections** each shift to verify print alignment and surface finish, preventing downstream rework.
- Inspected **500+ final parts** per shift before shipment by conducting detailed measurements with **micrometers** and **calipers**, ensuring compliance with blueprint specs for dimensional accuracy, surface finish, and critical tolerances.
- Achieved **100+ consecutive days** of **zero customer complaints** by thoroughly identifying and rejecting defective or non-conforming parts during final inspection, directly safeguarding product quality and upholding company reputation.

Linamar Corporation **July 2023 – August 2023**

CNC Machine Operator *Guelph, Ontario*

- Machined input, reaction, and reverse pinions for **Chrysler**, consistently producing **3,000+** parts per shift.
- Collaborated with the maintenance team and **10+** other machinists to **troubleshoot** recurring CNC machine issues, reducing machine downtime by **10%** across **5+ machines**, ensuring smooth operations across production lines.
- Calibrated **6** different **measurement instruments** with precision tolerances of **±0.005mm** to ensure quality.
- Performed pre-shift **safety checks** and verified oil, coolant, and pressure levels to prevent equipment failures.
- Used **digital gauges** and **micrometers** to verify dimensions, flagging out-of-spec parts before batch progression.

Linamar Corporation **July 2022 – September 2022**

Assembly Operator *Guelph, Ontario*

- Assembled input shafts for **Ford**, consistently producing **400+** high-precision and quality parts per shift.
- Recorded critical part measurements in **Operator Data Sheets** using **Microsoft Excel** to ensure traceability, support quality assurance processes, and maintain compliance with production specifications and inspection protocols.
- Interpreted **engineering drawings** and **part specifications** to ensure accurate assembly and component alignment.
- Applied **SPC** and **5S methodologies** to monitor production metrics, identify issues, and drive continuous improvement

PROJECTS

Job Vacancies in Canada Data Analysis | *Python, Pandas, Matplotlib, Seaborn, Agile, Software Development Life Cycle*

- Analyzed thousands of job vacancy records from **Statistics Canada** by cleaning, processing, and manipulating large CSV files using **Python** and **Pandas**, enabling data-driven insights into national job market trends.
- Developed **data visualizations** using **Matplotlib** and **Seaborn**, highlighting industry trends for actionable insights.
- Led weekly **Scrum** sprints by applying **Agile methodologies** and following the **SDLC**, enhancing team collaboration, improved workflow processes, and ensuring the consistent delivery of project milestones across all development phases.

The Science Behind Bodybuilding | *HTML/CSS*

- Designed and launched a fully **responsive website** on bodybuilding science by applying modern **HTML** and **CSS** techniques, optimizing layout, performance, and usability across both mobile and desktop platforms.
- Conducted in-depth research from **10+** reputable scientific studies on **optimal training**, **recovery**, and **nutrition and supplements**, retrieving key insights and information from **over 200** pages of research material for the site.