Waterloo, ON 647-929-6465 sing8282@mylaurier.ca https://jashandeep.co.uk/

Jashandeep Singh

Highly motivated Computer Science student (Year 3) with a passion for applying innovative solutions to real-world problems. Leveraging 5 years of manufacturing engineering experience to translate technical knowledge into high-performing software solutions. **Keen observer and quick leaner**

Skills

Programming Languages
Python, Java, C/C++

Manufacturing
SolidWorks, Mastercam, G-Code, GD&T

Operating Systems
Windows, MacOS, Linux

Web Development
Django, JavaScript, HTML, CSS, Bootstrap, Tailwind

Misc.
AWS, MySQL, Apache Webserver
Git, R

Education

September 2022-May 2026
Bachelor of Science in Computer Science
Wilfrid Laurier University, Waterloo
Expected Graduation: *August 2025.*

September 2016-August 2019
Mechanical Engineering Diploma
Conestoga College, Cambridge
Diploma In Automated Manufacturing

Experience

June 2019 - May 2024
Manufacturing Engineer
Canadian Babbitt Bearings Ltd.

- Created CNC programs according to production schedules, maintained electronic tool and fixture library
- Developed and standardized cost-effective manufacturing processes.
- Designed and selected tools and fixtures, providing troubleshooting and technical support.
- Created and maintained standardized work instructions, including setup sheets.
- Developed standard program macros and parametric feature-based programs
- Communicated and managed relationships with customers and suppliers both internally and externally
- Integrated stringent quality processes into manufacturing operations, elevating product excellence.
- Implemented lights-out machining for Matsuura H-Plus 630, optimizing productivity.
- Lead the procurement of fixtures, tools, and holders tailored to machine specifications, ensuring seamless operations

Projects

Work Order Management System
Developed and implemented a Work Order Management System using the Django, enabling real-time tracking of progress of each order

Gantt Chart Generation with Python
Created an application using openpyxl, pandas and requests libraries to retrieve data and generate Gantt chart

CNC Macro Generator
Developed a Java application to integrate machine-specific macros into standard CNC programs for capturing essential data such as part counts, time taken per part, and other critical metrics

Personal Website
Please view these projects and more on my personal website linked at the top of the page!