JUSTIN NEHME

MANUFACTURING & INDUSTRIAL AUTOMATION

(514) 707-7808 • Justin.nehme3@gmail.com • JustinNehme.ca • Montreal, QC

PROFESSIONAL PROFILE

Mechanical engineering candidate with aerospace/defence manufacturing experience spanning process planning, GD&T, CNC/CMM coordination, industrial fixtures, and shop-floor problem solving. Developing a bilingual manufacturing process-sheet application to standardize routing and inspection documentation. Earlier internship included ABB robotic tooling, automated brazing sensors, and 3D-printing operations.

ENGINEERING EXPERIENCE

Les Technologies KK | Île-Perrot, QC Feb 2026 – Present

Manufacturing Engineering | Aerospace & Defence Components

- Create and revise manufacturing process plans in collaboration with engineers, CNC programmers, and CMM inspection staff.
- Review drawings for GD&T, machining setup feasibility, tolerance risks, and fixture constraints; address production nonconformities.
- Design shop-floor tooling: deformation-correction fixtures, thermal-compound die-cutting aids, and self-retaining 3D-printed CNC-loading washers.
- Develop a bilingual process-sheet generator standardizing operation descriptions, routing, CTQ/inspection notes, and revisions.
- Work with defence coating/plating specs and gain hands-on exposure to 5-axis machining, Mastercam, laser engraving, and assembly.

WAJAX – Delstar Énergie | Montreal, QC Aug – Dec 2023

Mechanical Engineering Intern

- Supported sensor integration and troubleshooting on automated induction-brazing machinery.
- Redesigned components for ABB robotic-taping equipment and designed fixtures for lifting 800 kg motor poles.
- Maintained a 3D-printer farm and supported CNC machines, saws, drill presses, and industrial equipment.

SELECTED ENGINEERING PROJECTS

Walter | Robotic Production & Integration | 1st Place Capstone
Fabricated rapid prototypes and supported mechanical/electronic system assembly and testing for a semi-autonomous underwater robot.

Machine-Element Soap Press | Design to Manufacture
Applied stress analysis, FEA, CAD, and 3D printing to manufacture a functioning mechanical press.

Thermoelectric Vehicle | Design Optimization
Iterated a printed chassis to reduce weight and improve vehicle performance while considering drivetrain efficiency.

TECHNICAL SKILLS

Manufacturing operations: Process plans, GD&T, technical drawings, CNC/5-axis exposure, CMM coordination, CTQ/inspection.
Automation & tooling: ABB robotic-tooling support, sensors, fixture design, 3D printing, assembly, process-sheet automation.
Engineering software: SOLIDWORKS, Inventor, Fusion 360, AutoCAD, Mastercam exposure, Arduino, C++.

EDUCATION & ADDITIONAL EXPERIENCE

Concordia University | B.Eng., Mechanical Engineering | Montreal, QC | 2021–2026 (expected)
John Abbott College | DEC, Pure and Applied Sciences | 2018–2021

Earlier experience: Automobile Parts Advisor, Canadian Tire (2022–2023); Founder & Lead Technician, Justin's Repair Shop (2016–2018).

Languages: Fluent English and French • **Leadership:** 250+ hours of community volunteering; high-school robotics CAD team.