JUSTIN NEHME

AEROSPACE & DEFENCE ENGINEERING

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PROFESSIONAL PROFILE

Mechanical engineering candidate with direct experience supporting aerospace and defence component manufacturing. Skilled in interpreting technical drawings and GD&T, assessing machining feasibility, coordinating CNC/CMM workflows, and applying military hardware and coating specifications. Brings practical fixture-design experience, assembly knowledge, and cross-functional production problem-solving.

ENGINEERING EXPERIENCE

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

Manufacturing Engineering | Aerospace & Defence Components

- Evaluate manufacturing readiness of technical drawings, including GD&T, tolerance demands, CNC workholding, and toolpath feasibility.
- Coordinate manufacturing routing and process updates with engineers and CNC programmers; work with CMM inspection staff on discrepancies.
- Apply aerospace/defence hardware and finishing requirements, including MIL-PRF-22750G and MIL-DTL-53022E coating specifications.
- Develop tooling for 6061-T6 deformation correction, die-cutting operations, and CNC loading; support inspection-driven improvements.
- Develop a bilingual process-sheet generator for controlled operation templates, CTQ/inspection notes, and process revisions.

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

Mechanical Engineering Intern

- Worked with General Electric AC–DC converter assemblies using SOLIDWORKS and Autodesk Inventor for engineering diagnostics.
- Designed 800 kg motor-pole lifting fixtures and supported redesign of ABB robotic-taping manufacturing tooling.
- Supported machinery troubleshooting, sensor integration, and additive-manufacturing equipment maintenance.

SELECTED ENGINEERING PROJECTS

Walter | Integrated Underwater Robot | 1st Place Capstone
Helped develop and test a multidisciplinary robotic system integrating mechanical hardware, electromechanical controls, propulsion, and suction.

Indestructabox | Impact-Resistant Enclosure
Developed a theoretical protective design for a 40 km/h impact using CAD, FEA, engineering calculations, and BOM organization.

Machine-Element Soap Press
Applied mechanical design, stress calculations, prototyping, and FEA to a functional mechanism.

TECHNICAL SKILLS

Manufacturing engineering: GD&T, technical-drawing review, production routing, CTQ considerations, CMM coordination.
Aerospace/defence exposure: MIL-PRF-22750G, MIL-DTL-53022E, plating/coatings, 5-axis machining and Mastercam exposure.
Design & tooling: SOLIDWORKS, Inventor, Fusion 360, fixtures, FEA, 3D printing, mechanical assembly.

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.