Nicolas Gaucher, CPI

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EXECUTIVE SUMMARY

Coming from a family in the aviation industry and having grown up on 4 continents, my background uniquely positions me for a career in design engineering. From a young age I have been passionate about aviation which led me to pursue a Bachelor's degree in aerospace engineering, option: aerodynamics and propulsion.

OBJECTIVE

Mechanical designer looking for a design position with an international aircraft development leader where I can apply my general Aerospace knowledge acquired from my university education as well as my computer aided-design skills to be part of the design process of new aircraft and new aircraft components.

PROFILE

- Strong CREO, SOLIDWORKS and CATIAV5 knowledge.
- Coded my own portfolio using Html5 and CSS3, available at www.NicolasGaucher.ca.
- Strong design experience and teamworking abilities acquired through the years in mechanical design positions.
- Fast learner which allows for a fast transition from being trained to completing tasks independently.
- Extremely motivated and great desire to learn.

EDUCATION

Concordia University – Montréal, Canada — Sept 2013 – Dec 2019
Bachelor of Aerospace engineering, Option: Aerodynamics and Propulsion

Udemy — Sept 2020 – Nov 2020
Complete CATIA V5 Express Training

Open classrooms — Dec 2020 – Jan 2021
Learn to create your website with Html5 and CSS3

ACADEMIC PROJECT

Capstone – Final year aircraft design project — Sept 2018 – April 2019
Part of the team: Structural layout

- Designed and validated the cargo's section structural layout
- Introduced to the default aircraft design process and applied it
- Skills developed: Excel, AUTO-CAD, Validation strategies, Teamwork

WORK EXPERIENCE

Mechanical designer — April 2024 – Present
Conception Boréale, Longueuil, Canada

- Participated in the computer-aided design of new mechanical systems using SOLIDWORKS and CATIAV5
- Designed various equipment for production, handling and lifting in the industrial sector
- Designed various tools used for a multitude of operation on Pratt and Whitney engines
- Such tools included pullers, pushers, indexing rings, oil pans, heat gun jigs, gauge spacers, lifting tools and more
- Tools designed were mostly in aluminum or steel made with machining in mind although some required bending of thin sheets or welded assemblies with mostly fillet welds.
- Skills developed: Understanding of SOLIDWORKS, Improved CATIAV5 abilities, Working from home efficiently under minimal supervision, Working on multiple projects effectively, Teamwork

Mechanical designer Oct 2022 – Aug 2023

Actalent, Saint-Laurent, Canada

- Contractor working with Actalent's client: CAE
- Participated in the computer-aided design of various components and different modules to be used in full flight simulators using CREO 8.0 and Microstation v7
- Components designed include mostly brackets made from sheet metal and sometimes 3D printed or machined parts.
- Modules personally designed were mostly the routed systems such as the AC or smoke generator, various modkits and lastly the EFB installation brackets.
- Skills developed: Understanding of CREO 8.0 and Microstation v7, Working from home efficiently under minimal supervision, Working on multiple projects effectively, Teamwork

Mechanical designer Sept 2021 – June 2022

Conception Boréale, Saint-Hubert, Canada

- Participated in the computer-aided design of new mechanical systems using SOLIDWORKS and CATIAV5
- Designed various equipment for production, handling and lifting in the industrial sector
- Designed various tools used for a multitude of operation on Pratt and Whitney engines
- Such tools included pullers, pushers, indexing rings, oil pans, heat gun jigs, gauge spacers, lifting tools and more
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SKILLS AND INTERESTS

Language Skills: Fluent English and French
Computer Skills: MS Office, AUTO-CAD, CATIAV5, SOLIDWORKS, MATLAB, CRE0 8.0, Microstation v7, Html5, CSS3
Soft Skills: Team player, Fast learner, Adapt to new environments with ease
Interests: Sports (Ice hockey, Rollerblading), Cinema, Video and board games, Aircrafts and space