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Dear Hiring Team at Airbus Canada,

I imagine you might find a few aspects of my resume intriguing: a Canadian with U.S aerospace education but automotive internship experiences, and now applying back to Canada for an aerospace position?

Growing up, my dream was always to be an aerospace engineer. Chasing that dream had led me to obtain my PPL at the age of 18 and moved from Canada to the U.S., where I immersed myself in some of the best aerospace institutions in the world, eventually becoming one of the project leads for the university rocketry team, MASA. However, the barriers posed by ITAR regulations restricted me from venturing into the U.S aerospace sector. This forced me down the automotive path, and while I've had the privilege to intern at renowned firms such as Volvo and Zoex, the time I spent at Solar Ship, a Canadian aerospace start-up focused on making solar-electric airship for disaster relief, is by far the happiest moments I have felt throughout my internship experience.

And here I am, really excited as I send out my first full-time aerospace application as a new graduate professional engineer position for Airbus Canada. I am convinced that the rigorous, fast-paced, and detailed engineering acumen I have developed in the automotive realm will serve as a valuable asset in aircraft performance analysis and optimization.

At Zoex, I revived a cooling system test rig that was stagnant for 2 years in just 9 weeks. My design recommendations, based on test data, increased the system flow rate by 7.5%. My manager highlighted my fast-paced work ethic and emphasized that I produced more data in 9 weeks than the project had in the previous 2 years.

Further enriching my expertise in mechanical design and CFD software are my internships at Solar Ship Inc. and Volvo Truck North America. At Solar Ship, I developed an extendable yoke mount for an airship cockpit capable of withstanding an 11-G crash load with a safety factor of 2. Meanwhile, at Volvo Truck, I designed a swirl air-coolant separation tank using Star CCM+, achieving a 99% separation efficiency and reducing its mass by 40% compared to the original concept.

Airbus is without a doubt the absolute industry leader in commercial aviation. As the world moves to a new age of greener and more sustainable aviation, there will no doubt be new and stricter requirements on aircraft performance. I am eager to join Airbus on this new journey.

Thank you for your consideration!

Andi Zhou