

VICTOR LEFEBVRE

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EDUCATION

Bachelor of Engineering in Mechanical Engineering (BEng), January 2023 - Present
University of Victoria, Victoria, BC

- 4th year mechanical engineering student

Bachelor of Engineering in Aerospace Engineering, Aerodynamics and Propulsion, Jan. 2022 - Dec. 2022
University of Concordia, QC
Transferred to University of Victoria

Collegiate Diploma, CEGEP de Granby, Nature, Pure and Applied Sept. 2019 - Dec. 2021
1st year University equivalent

TECHNICAL SKILLS

- **Engineering tools:** SolidWorks, Autodesk Fusion 360, 3D printing, Fiji (ImageJ), DragonFly, Inkscape
- **Programming:** Python, C, C++, JavaScript, HTML, CSS, MATLAB
- **Office Software:** Microsoft Office Suite (Excel, Word, PowerPoint, Planner, Teams)
- **Language:** Fluent in French and English

PROFESSIONAL EXPERIENCE

Research Assistant 2024 - 2025
Energy Group for Generation & Storage, University of Victoria, Victoria, BC Work Terms #1 & 2

- Developed in-house stochastic models for replicating manufacturing defects in porous transport layers and for optimizing interfacial parameters in microporous layers, creating a model database
- Conducted statistical analysis and advanced imaging analysis to evaluate effectiveness of porous structures
- Prepared academic publication, published in *Energy Conversion & Management*
- Prepared technical Safety Operation Procedures of stochastic generation code

Motivational Speaker at the Canadian Sport Institute in Quebec 2023 - Present
Jouez-Gagnant! -INSQ, Quebec

- Spoke in multiple elementary schools and shared personal values and principles to inspire next generations
- Presented personal sporting and academic background in front of an audience of 50 to 250 people

Team Canada Rower 2024 - 2026
Rowing Canada Aviron, Shawnigan, BC

- Represented Canada at international competitions while balancing University coursework and internships
- Developed exceptional discipline and time-management through elite training schedule, training camps, and competition schedules
- Demonstrated resilience, coachability and performance under pressure while managing injuries and setbacks.

Assistant Manager 2019 - 2022
Boutiverre Workshop, Knowlton, QC

- Molded glass and helped an artist in hundreds of creations using 100% recycled glass
- Helped optimize production and management of the company growing it from 2 to 9 employees
- Researched and contacted glass suppliers and develop relations and long-term partnership with international companies
- Entrusted with quality control and shipping to over 600 clients annually

EXTRACURRICULAR ACTIVITIES

UVic AERO Club Member

- Contributed to student-led aerospace engineering projects and designs
- Collaborated with multidisciplinary teams on aircraft systems and innovations
- Designed and manufactured various aircraft and drone parts to complete specific tasks including reconnaissance and firefighting drones

COMPETITIVE SPORTS

- Represented Canada at the FISU World championship in Rotterdam, Netherlands in June 2024
- Represented Canada at the Pan-American qualification Regatta in Concepcion, Chile in April 2023
- University of Victoria Vikes Men's Rowing Varsity Team Captain 2023-2024 and 2024-2025

AWARDS & CERTIFICATIONS

- University of Victoria Academic All-Canadian and Honour Roll (2025)
- Pratt & Whitney Canada, Thor E. Stephenson Academic Scholarship (2022)
- Varsity Athlete Scholarship
- RBC Future Olympian Bursary (2019)
- College Francais Longueuil, Baltazar Award, Academic average over 95% (2019)
- Transport Canada basic drone pilot certificate (Small RPAS, Basic Operations)
- Certified driver and pleasure craft operator
- Completed several training courses; hockey official (grade 2 on-ice official and level 3 off-ice official); Aquatics (National Lifeguard, General First Aid and water-polo Instructor); educational and sporting (DAFA, NCCP Triathlon)

PROJECTS

- Designed CNC-based spray coating system for fabrication of catalyst layer for water electrolyzers
- Modeled a python code generating multi-porous layers as once for statistical analysis
- Designed a solar-geothermal hybrid cooling system for a nonprofit organization to provide refrigeration and energy to communities in remote areas in Wau, South Sudan
- Engineered a hydraulic cylinder system and a centrifugal clutch using CAD software, SolidWorks, while respecting tolerances and committing to industry regulations
- Developed a smart waste collection system to help the city of Victoria and the government of BC manage their waste collection
- Researched the environmental impact of lithium-ion batteries and conducted a LCA (Life Cycle Assessment) from the resource extraction to the disposal and recycling of the batteries
- Worked on Challenger 650 aircraft, PT6 engines, helicopter landing gear and airplane airfoils
- Researched and documented the historic features of the Canadian-made CF-105 Avro Arrow
- Competed at the "Science on Tourne" competition in Quebec designing a car powered by potential energy

PUBLICATIONS

- Tayyem, A., Lefebvre, V., Ko, J., Cho, S. K., Jang, J. H., & Lee, J. K. (2025). *Investigating the effect of porous transport layer defects on structural and transport properties in proton-exchange membrane water electrolyzers*. *Energy Conversion and Management*, 350, 120988.

VOLUNTEERING

- Providing support on developed models for Energy Group for Generation & Storage
- Montreal Canadian Foundation
- Victoria City Rowing Club
- Ironman Victoria
- TC 10k Run, Victoria
- Operation Red Nose
- Elite Swimming Club, Longueuil

References provided on demand