NOAH FERRAROTTO

Graduating mechanical engineering student looking to start a career in the world of composites in a setting that fosters interaction and creativity.

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EDUCATION

McGill University — Sept. 2016 - Apr. 2020
Bachelor of Engineering Mechanical Engineering
CGPA: 3.68

EMPLOYMENT

HUTCHINSON AEROSPACE AND MCGILL UNIVERSITY — Montreal, QC
Summer Research Student — May 2019 - Aug. 2019

- Developed a method for making 3D-printed cores for liquid composite moulding.
- Manufactured composite test samples using industrial-grade techniques and materials.
- Presented this method's potential for manufacturing of more complex composite parts to members of faculty and industry.
- Awarded 1st prize in the aerospace category.

MEDXL, INC. — Montreal, QC
Manufacturing Engineering Intern — May 2018 - Aug. 2018

- Implemented practical solutions to maintain and improve production lines under the supervision of the lead manufacturing engineer.
- Designed robust replacement parts to increase production line longevity and reliability.
- Created manufacturing drawings and visited suppliers to ensure part quality and on-time delivery.
- Assisted mechanics in servicing the machinery.

LEADERSHIP & INVOLVEMENT

RAFALE ÉTS MCGILL · LEAD (HYDROFOILS TEAM) — Sept. 2019 - Current
McGill | ÉTS (École de Technologie Supérieure)

- Sparked the first ever McGill - ÉTS design team partnership.
- Helped design a high-performance sailboat using sustainable materials and innovative fabrication techniques.
- Secured software licenses for model validation with CFD and FEA.
- Aiming to compete in the SuMoth Challenge (June 2020).

THE FLAT (MCGILL BIKE COLLECTIVE) · VOLUNTEER MECHANIC — 2019 - Current

- Taught fellow McGill students to repair flats, index gears and true wheels.

MCGILL CYCLING TEAM · MEMBER — 2018 - Current

- Participated in club rides and indoor training sessions.

MCGILL FORMULA ELECTRIC · SENIOR MEMBER (CHASSIS TEAM) — 2016 - 2018
McGill University

- Designed carbon fiber laminates to maximize strength, stiffness and weight savings.
- Implemented those laminates in the design of the chassis monocoque in collaboration with suspension and powertrain teams.
- Prepared laminate samples for physical testing and validation of strength calculations.
- Designed CNC-routed moulds and laser-cut drill jigs for accurate part manufacturing with minimal post-processing.
- Participated in weekly meetings and design reviews to orient new members and evaluate design progression.

AWARDS

McGill Faculty of Engineering · SURE PROJECT WINNER — 2019

- Awarded best overall poster presentation in the aerospace category.

McGill Writing Centre · NOMINATION FOR EXCELLENCE IN WRITTEN COMMUNICATION — 2017

- Shortlisted among the 8 best engineering research papers across 259 entries within the Communication in Engineering course.

SKILLS

DESIGN WITH COMPOSITES: Laminate design, CAD, FEA, and ply nesting.
PROCESSING OF COMPOSITES: Characterization, prepreg, infusion, wet layup, vacuum bagging, autoclave curing, and physical testing (ASTM).
SHOP FLOOR & SAFETY TRAINING: 3-Axis CNC mill, 3D printing (FDM and SLA), WHMIS codes, laser cutter, and TIG welding.
SOFTWARE: Abaqus, AutoCAD, LabVIEW, SolidWorks, MATLAB/Simulink, Raven, NX, Fusion 360, MasterCAM, Arduino, and Excel VBA.
LANGUAGES: English and French fluency.