

Lance Keddy

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Education

Bachelor of Science in Chemical Engineering

Completed May 2026

University of New Brunswick

Fredericton, NB

- Minors: Business, Mathematics; Options: Nuclear Power, Energy Conversion Engineering
- CGPA: 3.9/4.3 (3.8/4.0); Engineering Dean's List: 2021/22; 2023/24; 2024/25
- Kathryn and John Richardson Memorial Scholarship (4-year award granted in 2021)

Technical Skills

Process: Aspen Plus; PI Vision; PARCview; heat/material balances; PFD/P&ID markups

Safety/Ops: SOPs; JSAs; HAZOP; HAZID; FMEA; technical reporting

Commercial: Financial modelling; techno-economic analysis; cost-payback; project scheduling, financial statements

Work Experience

Process Engineering Student in Kraft Mill Technical Services

May 2025 - August 2025

Irving Pulp & Paper, J. D. Irving Limited

Saint John, NB

- Supported commissioning/ramp-up of a new effluent treatment plant, troubleshoot dissolved air floatation (DAF), moving bed biofilm reactor (MBBR), clarification, sludge pressing/handling, cooling towers, and heat exchangers.
- Led or supported 5 chemical trials on sludge odour mitigation to reduce hydrogen sulphide gas emissions; coordinated operators and chemical suppliers, and documented process operating conditions for repeatability.
- Delivered sludge-handling design analysis proposing 5 design changes with instrumentation additions, including marked-up P&IDs, change descriptions, and cost payback.

Process Engineering Student in Mill Technical Services

May 2024 - August 2024

Irving Paper Limited, J. D. Irving Limited

Saint John, NB

- Directed a \$250K pilot-scale effluent treatment project, overseeing planning, implementation, and coordination between vendor and mill resources at a utility-limited site.
- Planned and supervised confined-space urea tank cleaning and maintenance during turnaround following crystallization-related valve failures; coordinated isolation, entry controls, and readiness for restart.

Engineering Co-op as a Quality Process Technician

May 2023 - August 2023

Michelin North America

Waterville, NS

- Led a project to redefine operating standards for a machine family that handled 90% of site production; aligned requirements with operations and maintenance, leveraged external vendors, and delivered updated standards.
- Temporarily assumed responsibilities of the shop operations lead, including morning shop-floor tours, morning operator meetings, and contributed to the department management meetings.

Project Experience

Entrepreneurial Capstone Design Project

September 2025 - Present

Hexoris Inc. / UNB TME 4025 Project

Fredericton, NB

- Communicated technical, market conditions, and economic value to technical and non-technical audiences, both in the form of presentations and pitches to secure funding and awards of approximately \$40,000.
- Built a commercialization roadmap and long-term financial model to determine the funding gates required to scale.
- Planned and executed the installation of a bench-scale graphitization reactor, with hands-on mechanical troubleshooting, and contributed to the systems design, including P&IDs, bill of materials, and component sizing.
- Pitches: ImpactX (StFX - first), APEX (UNB - Second), Enactus Regionals (Innovation - first), NBIF breakthrough (finalist)

Leadership

Vice President / President Enactus UNB

May 2023 - Present

- Coached club to its first Regional Exposition pitch win and National Exposition invitation in 4 years.
- Recruited and managed 8 vice presidents; set an operating plan and held accountability for club operations.