RJ Bartlett Engineering Ltd

FREDERICTON OFFICE
1133 Regent Street, Suite 113
Fredericton, New Brunswick
E3B 3Z2
Phone: (506) 459-3070

HALIFAX OFFICE
1046 Barrington Street, 3rd Floor
Halifax, Nova Scotia
B3H 2R1
Phone: (902) 496-3070

Benoît LeBlanc, M.Sc.A., EIT/MS

Bachelors in Mechanical Engineering, Université de Moncton, 2012

Maîtrise Ès Sciences Appliquées (M. Sc. A.), Université de Moncton, 2016

Areas of Practice

- Performance-Based Alternative Solutions
  - Building and Fire Code Consulting
  - Heat Transfer Analysis
  - Fire Protection Systems Design
  - Fire and Evacuation Modeling
  - Computational Fluid Dynamics Modelling

Professional Experience

RJ Bartlett Engineering Ltd, August 2023 to Present

- Building and Fire Code Consulting
- Fire Protection Engineering
- Site Inspections
- Heat Transfer Analysis
- Computational Fluid Dynamics Modelling
- Performance-Based Alternative Solution

Juul Labs Canada Inc, Research & Development, February 2019 – November 2022

- Computational Fluid Dynamics Modelling
- Multiphase and Phase Change Modelling
- High Performance Computing
- Data Analysis
- Software Development

Maritiem Instituut Nederland (MARIN), Wageningen, Netherlands, January 2018 to December 2018 (Internship)

- Computational Fluid Dynamics Modelling
- Ocean Wave Impact Modelling
- High Performance Computing
- Data Analysis
- Software Development

Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Aerodynamik und Strömungstechnik, Braunschweig, Germany, August 2013 – June 2014 (Internship)

- Computational Fluid Dynamics Modelling
- Turbulence Modelling
- High Performance Computing
- Data Analysis
- Software Development

Affiliations

- Registered Engineer-in-Training with the Association of Professional Engineers and Geoscientists of New Brunswick.

Research Publications

- **LeBlanc, B.**, Poitras, G. J., Brizzi, L. E., & Roy, G., 2019, Aerodynamic analysis of the asynchronous phenomenon of a impinging jet on a concave surface. *International Journal of Computational Fluid Dynamics*, 33(10), 421-436.

- **LeBlanc, B.**, Klaij, C. M., Chen, H. C., & Gerber, A. G., 2019, Application of a coupled level set and volume of fluid method unsteady simulations with an unstructured flow solver. *MARINE VIII: proceedings of the VIII International Conference on Computational Methods in Marine Engineering* (pp. 223-234). CIMNE.

- **LeBlanc, B.**, Chen, H. C., & Klaij, C. M., 2018, Evaluation of a coupled Level Set and Volume of Fluid Method for Unstructured Meshes. *Numerical Towing Tank Symposium*.

May 2024