

# Alex William Lyle Bannister

Mechanical Engineer (EIT) and Technologist

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## Competencies

### Structural, Fluid, and Electrical Prowess

- Strong understanding of mechanical concepts and design ideas through studies at Camosun College, University of Victoria, and multiple work terms, as well as thermofluidic and aircraft knowledge

### Strong Communication and Team Collaboration

- Collaborated effectively with peers to deliver a complex capstone design in the technology program and developed plans for scope recovery in meetings with other engineers at Babcock Canada and ASL Environmental

### Computer Aided Design and Modelling Knowledge

- Vast experience using Solidworks, Fusion 360, Inventor, AutoCAD, Siemens NX, Python, and MATLAB to employ mechanical design for clients in capstone projects and general consulting

### Microsoft Office Proficiency

- Extensive experience with Word, Excel, PowerPoint, and OneNote through work and mechanical engineering programs

### Machining and Hands-On Experience

- Developed strong understanding of practical skills in a machine shop while working with heavy machinery throughout the Technology program at Camosun and at Rainhouse in an iterative design environment

\*References available upon request

## Employment History

### Project Engineer – Rainhouse Manufacturing Canada (February, 2022-Current)

- Produces technical drawings and design consultation for clients in a manufacturing setting
- Developing strong project management and planning skills with a close-knit team of professionals for large scale product builds
- Experiencing design requests where GD&T is an asset to our manufacturing and quality management capabilities

### Data Analyst – ASL Environmental Sciences (September-December, 2022)

- Provided data processing and interpretation of oceanographic instrumentation for clients under strict project timelines
- Proficiency in MATLAB, as well as dexterous learning of company-specific software under a quick training period

### Commissioning Co-op – Babcock Canada (May-August, 2021):

- Assisted in testing and commissioning of systems onboard Victoria class submarines for the Victoria In-Service Support Contract
- Produced an interface for organizing system statuses for workers at the shipyard to alert colleagues of critical system updates

### Mechanical Technologist Co-op – Babcock Canada (January-December, 2019):

- Produced technical documents for engineering professional review to help the team at the shipyard move forward with maintenance milestones
- Wrote MATLAB script to present graphical representation of hot-work performed on the submarine in the Esquimalt Dry-Dock

### CAD Technician Co-op – Geotech Industries Inc. (September-December, 2018):

- Worked closely with people in trades within a machine shop to repair equipment and create solutions for large industrial firms such as Catalyst (Crofton), Harmac (Nanaimo), and BC Ferries
- Acquired engineering workplace skills related to material specifications and quoting for customers

## Education

- Bachelor's in Engineering (Mechanical) Program [pathway in Mechatronics] – University of Victoria (2022)
- Mechanical Technologist Certificate – Camosun College (2018)

## Additional Information

- Certified Solidworks Professional [CSWP] (2025)
- President of UVic AERO Club (April 2022-July 2023)
  - Basic Drone License (2022)
- Class 5 Driver's License
- OFA Level 1 (June 2024)
- Forklift Certification (July 2023)

## Interests:

Robotics, Woodworking, Running, Biking, Bouldering, Kayaking, Singing, Musical Instrumentation