

CHRIS JAN DALING

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PROFESSIONAL SUMMARY

University of Victoria Mechanical Engineering student pursuing co-op opportunities. I bring end-to-end build experience - CAD, prototyping, composites, and electrical integration from an independent e-foil project, along with practical, safety-focused problem solving from construction and utility-arborist support work. Comfortable working on tasks - from requirements and design, through fabrication, testing, and iteration.

SKILLS

- Mechanical design: CAD modeling (FreeCAD, SolidWorks), prototyping, and component integration
- Fabrication and testing: power tools, composites, assembly, and troubleshooting
- Electrical and controls: hands-on diagnosis, iterative testing, and creative design solutions
- Project management: planning, task organization, safety awareness, and teamwork in high-risk environments

PROJECTS

Electric Hydrofoil Board (E-Foil) - Independent Project

- End-to-end system: Requirements → CAD → fabrication → wiring → firmware/ESC tuning → testing.
- Power & safety: Assembled a 16S×12P Li-ion battery with nickel/copper busbars, and JK-class BMS.
- Controls & telemetry: Tuned ESC parameters, throttle mapping, and ramp rates; added data logging (current, voltage, RPM/speed) to inform design iterations.
- Mechanical design: Designed a waterproof motor mount, mast clamp, and full board + system in CAD
- Results: So far testing results have been majority positive.

EXPERIENCE

Groundsman - Utility Arborist Crew, Riteway Tree Service, May 2025-August 2025

Aldergrove, British Columbia

- Assisted in tree clearing around live utility lines under strict safety protocols.
- Operated and maintained equipment, including chainsaws and chippers.
- Developed strong communication skills in a high-risk team-based environment.
- Assisted with tree removal procedures under supervision.

Assistant Carpenter, Renovation Science, June 2024-August 2024

Burnaby, Canada

- Supported construction projects including stairs, flooring, fencing, and drywall.
- Helped prepare sites improving daily efficiency.
- Assisted in measuring and cutting materials for various renovation projects.
- Supported lead carpenters in assembling frameworks and structures on-site.

EDUCATION

Bachelor of Mechanical Engineering

University of Victoria, Victoria BC Expected in May 2029

ACHIEVEMENTS

- Entrance Scholarship, University of Victoria, 2024
- Chem 13 News Certificate of Distinction, University of Waterloo, 2024
- Certificate of Special Merit, Canadian Chemistry Contest, 2024
- Certificate of Achievement, Math 100, University of Victoria 2025

REFERENCES

Mike Johnson - Owner, Ritway Tree Service (Utility Arborist Company)

Phone: 604-835-0942

David Martin - Owner, Renovation Science

Phone: 604-377-5448

INTRESTS/HOBBYS

- Snowboarding
- Golf
- Rugby