NICK DERNOVSEK

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Summary

Engineering graduate (B.Eng.) who designs residential buildings from architect drawings and works on site to build them. Experienced with AutoCAD, Revit, and SolidWorks, clash detection, the Ontario Building Code, and technical reporting, backed by hands-on framing, concrete, roofing, and renovation work. Seeking an engineering graduate, EIT, or field engineer role.

Engineering Experience

Residential Construction Designer & Labourer – ***Pacd Homes***, *Part-Time* Jul 2025 – Present

- Modelled 4 home types (1- and 2-storey, bungalow, basement) in SolidWorks from AutoCAD and Revit plans.
- Built code-compliant plumbing routes and HVAC/electrical fittings in SolidWorks Routing for clash checks.
- Run collision detection to catch trade conflicts before construction and verify Ontario Building Code compliance.
- Produce renders for pre-fabrication client viewings and support on-site framing, foundations, and finishing.

Biomedical Researcher – ***KAT Innovation***, *Contract, Part-Time* Mar 2024 – Feb 2025

- Ran ex-vivo experiments, reviewed literature to plan test protocols, and wrote technical reports for a startup.

Biomedical R&D Intern – ***Pocket Clinic***, *Contract Internship* Dec 2024 – Jan 2025

- Designed and simulated smart injector components in SolidWorks and COMSOL, and wrote technical reports.

Construction Experience

Renovations Labourer – ***SBuilt***, *Contract, Brisbane, AU* Jan 2026 – Apr 2026

- Completed demolition, decks, pools, carports, painting, and finishing on residential renovations.
- Coordinated material deliveries from hardware stores and lumber yards to keep projects on schedule.
- Worked alongside tradespeople while keeping job sites clean, safe, and organized.

Building Labourer – ***Blue Valley Building***, *Part-Time* Jan 2020 – Aug 2020

- Built homes, cabins, and cottages, including framing, roofing, and concrete, working 50-hour peak weeks.
- Supported site preparation and material handling on demanding residential job sites.

Leadership

Co-Founder & Head of Operations – ***Crown Kombucha***, *Full-Time* May 2025 – Aug 2025

- Co-founded and incorporated a beverage company, managing production, logistics, and food-safety inspections.
- Planned supplies, setup, staffing, and timelines to deliver a 150-person hospital charity event.

Education

University of Guelph Sep 2021 – May 2025

Bachelor of Engineering, Biomedical Engineering (Honours) *Guelph, ON*

- **Capstone:** Quick-Switch Adapter for climbing re-bolting; Instron testing, ANSYS FEA, and prototyping.
- **Analysis:** Carabiner FEA in SolidWorks and ANSYS, verified with a mesh convergence study.
- **Varsity Badminton:** Competed for three years alongside a full engineering course load.

Skills

Design: AutoCAD, Revit, SolidWorks (3DEXPERIENCE), ANSYS, MATLAB, Drawing Interpretation, Clash Detection
Construction: Ontario Building Code, Framing, Foundations, Concrete, Roofing, Demolition, Power & Hand Tools
Professional: Technical Reports, Scheduling, Supplier Coordination, Microsoft Office, First Aid & CPR, Driver's Licence