

NICK DERNOVSEK

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Summary of Qualifications

- Proficient in engineering software (SolidWorks, COMSOL, ANSYS, MATLAB) with experience in CAD modeling, simulation, and biomedical device design
- Hands-on biomedical research experience performing ex-vivo testing and experimental design/development in a collaborative startup environment
- Demonstrated leadership and initiative through program leading roles, varsity athletics, and co-founding a small startup business, including participation in entrepreneurship programs and competitions
- Strong practical and problem-solving skills developed through construction work, international volunteering, and multidisciplinary teamwork

Skills and Abilities

Engineering Software: 3D Experience SolidWorks, MATLAB, COMSOL, ANSYS, Vicon, LT Spice, Excel

Laboratory & Research: Ex-vivo testing, waveform generators, oscilloscopes, motion capture, literature review, technical writing, data analysis

Technical & Practical: First aid & CPR, construction, car mechanics, PC building and debugging, power tools

Education

University of Guelph

Bachelor of Engineering, Biomedical Engineering (Honours)

Sep 2021 – Apr 2025

Guelph, ON

Relevant Work Experience

Biomedical R&D Intern – KAT Innovation

Contract Part-Time

Feb 2024 – Present

Montreal, QC

- Conducted hands-on lab experiments using ex-vivo porcine bone models to simulate physiological conditions.
- Performed extensive literature reviews to guide experimental design and research analysis.
- Contributed to troubleshooting, technical development, and report writing in a fast-paced startup environment.

Device Development Intern – Pocket Clinic

Contract Part-Time

Dec 2024 – Jan 2025

Waterloo, ON

- Designed and modeled medical device components using SolidWorks for a smart injector system.
- Simulated piezoelectric behavior in COMSOL Multiphysics to analyze and refine device performance.
- Iterated designs based on performance analysis and documented findings in technical reports.

Lead SolidWorks Designer – Pacd Homes

Permanent Part-Time

Jul 2025 – Present

Guelph, ON

- Designed full-scale residential building assemblies using 3D Experience SolidWorks, integrating structural, electrical, plumbing, and architectural systems for construction design.
- Performed collision detection to ensure on-site accuracy and compliance with Ontario Building Code requirements.
- Provided on-site construction support, assisting with framing, foundations, drywalling, finishing, and power tools.