

Jordyn Knock

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EDUCATION

University of British Columbia

Bachelor of Applied Science in Chemical and Biological Engineering, Co-op

Vancouver, BC

Sept. 2023 – April 2028

EXPERIENCE

Engineering Intern

July 2024 – August 2024

Stryker, Endoscopy Business Unit

Toronto, ON

- Contributed to the acquisition process of Molli Surgical by Stryker, experiencing the transition from a small company to a large corporate structure.
- Gained insights into the integration of teams, aligning operational processes during the acquisition phase.

Research and Development Intern

May 2024 – July 2024

MOLLI Surgical

Toronto, ON

- Led an investigation into Wand Error 100, diagnosing sensor malfunctions through non-destructive and destructive testing, which resulted in identifying key issues related to electrical connections.
- Collaborated on the MOLLI Accuracy Robot Project, leading the software as well as optimized product assembly models using Fusion 360 and Arena for quality management.

Engineering Intern

July 2023 – August 2023

MOLLI Surgical

Toronto, ON

- Conducted Adhesive Tests, writing detailed test protocols and reports.
- Reverse engineered a Seal Tester and developed a large-scale Burn-In test, sourcing electrical components and creating a PCB prototype for testing.

ENGINEERING OR DESIGN STUDENT TEAMS

UBC Rapid

September 2024 – Present

Web Development Subteam Member

Vancouver, BC

- Fixed bugs and optimized code in HTML, CSS, and React.js to improve website functionality and user experience.
- Collaborated with team members using GitHub for version control and ZenHub for project management to streamline development workflows.

September 2023 – Present

Filament Recycler SubTeam Member (Mechanical)

- Collaborated on designing and building a device to recycle and respool scrap filament from 3D prints, focusing on material research for the hopper.
- Assisted in troubleshooting and repairing 3D printers, resolving technical and electrical issues.

PROFESSIONAL AFFILIATIONS

Canadian Society for Chemical Engineering, Member

September 2024 – Present

AWARDS

School Champion, Waterloo Mathematics Canadian Senior Math Contest

February 2023

Champion, PEO Engineering Idol Competition 2023: Lunar Gateway

April 2023

TECHNICAL SKILLS

Computer: Python, C, G-code, HTML, CSS, React.js, Latex, Git, Github, MATLAB, Microsoft Office Suite, Google Workspace, Quality Management Systems

Design and Prototyping: CAD software: SolidWorks, Fusion360, Rapid prototyping, 3D Modelling, Engineering drawings

Testing and Analysis: Circuit Design, Equipment calibration, Failure mode and effects analysis, Risk Assessment, Oscilloscope, Multimeter, Soldering iron

HOBBIES AND INTRESTS

Activities: Hockey, Swimming, Volleyball

Other: Cooking, Baking