JAMIE KANG

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SKILLS

Languages:	C#/C++, JavaScript, LaTeX, MATLAB
Applications:	VESTA, CrystalMaker, Onshape, SolveSpace, Abaqus, UniVert, Figma, Canva, VS Code, MS Word/Excel/PowerPoint, Krita
Laboratory:	Centrifuge, spectrophotometer, gel electrophoresis, micropipettes

PROJECTS

Analysis of Deformable Solids — Waterloo, ON
Mechanics of Deformable Solids Laboratory — *Oct. 2022–Dec. 2022*

- Used a CellScale with UniVert testing software to conduct three and four point bending analysis on the radius, ulna, and humerus of a chicken.
- Used strain gauges in quarter-bridge configurations and a vernier caliper to investigate the material composition of three metal samples.
- Simulated the stress from combined loading on a drill bit using Abaqus to conduct a finite element analysis.

Modern Web Application Design — Waterloo, ON
Waterloo Experience (WE) Accelerate Program — Manulife — *May 2022–Jun. 2022*

- Built a web application which displays data of professors in UWaterloo and provides further information upon clicking using REST API and React.js.

Y. A. T. S. (You Are The Stick) Wheelchair — Waterloo, ON
Introduction to Biomedical Design — *Sep. 2021–Dec. 2021*

- Designed a backrest-controlled wheelchair where upper body movement replaces the joystick feature of standard motorized wheelchairs.
- Followed an iterative design process and applied methods such as QFDs, Personas, Morphological charts and engineering analysis.

Other Projects — UWaterloo, online and at home
UWaterloo, online and at home — *2018–2022*

- Coded the Othello board game in C# using method functions, linked lists, etc.
- Made 3D models of the following in Onshape: Ted's one-wheeled bike from the movie "The Lorax", the crystal structure of alpha cristobalite and graphite, a fit-together puzzle in the shape of a flower.
- Designed and pitched a product to counter a selected natural disaster scenario and won first place in a competition at an engineering/entrepreneurship summer camp hosted in UWO.

WORK EXPERIENCE

Project Developer — Burlington, ON
Spero Careers Canada — *Aug. 2022*

- Advanced proficiency in Figma by designing for the mobile application *NANAWorks*.
- Designed and implemented front-end pages using Bubble.

Secretary and Librarian — London, ON
Veritas Education Canada — *Sep. 2019–Aug. 2021*

- Advanced data analysis and Excel skills by significantly reducing the number of lost library books and unassigned homework using an organizational system.

EDUCATION

University of Waterloo — Waterloo, ON
B.A.Sc., Biomedical Engineering — *Expected Apr. 2027*

- Relevant courses: Materials Science, Mechanics of Deformable Solids, Biology, Calculus 1–3, Statics, Dynamics, Chemistry, Data Structures & Algorithms, Human Factors, Matrices & Linear Systems.