

# Nicole Thiessen

343-204-2642 | nicole.d.thiessen@gmail.com | linkedin.com/in/nicole-d-thiessen | Nicole Thiessen — Portfolio

## EXPERIENCE

- 
- |   |                                       |
|---|---------------------------------------|
| <b>Technical Analysis and Intellectual Property Assessment Intern</b><br><i>CoreCurrent Solutions Inc.</i>  | July 2025 – August 2025<br>Ottawa, ON |
| <ul style="list-style-type: none"><li>Reverse engineered automotive electronic modules to identify patent infringements, accelerating legal evidence collection</li><li>Researched IC components, compiling findings into organized reports, improving accuracy in client cases</li><li>Built a Python OpenCV tool mapping chip images to their positions on the PCB, streamlining analysis workflows</li></ul> |                                       |
| <b>Sterilization Technician &amp; Administrative Assistant</b><br><i>Kanata Periodontics</i>  | June 2025 - August 2025<br>Ottawa, ON |
| <ul style="list-style-type: none"><li>Maintained sterilization equipment, prepped operation rooms, and assisted chairside with strong organization and attention to detail, easing staff workload and improving patient flow</li></ul>  |                                       |
| <b>Etsy Shop Founder &amp; Owner</b><br><i>ClayRoomCo</i>   | April 2022 - April 2025<br>Ottawa, ON |
| <ul style="list-style-type: none"><li>Launched and scaled an online shop for handcrafted figurines, achieving 100+ sales and \$4,000+ revenue through creative design and marketing</li></ul>   |                                       |

## PROJECTS

- 
- |  |                     |
|--|---------------------|
| <b>Formula Electric (Tractive) Design Team – Member</b>  | Sept 2025 - Present |
| <ul style="list-style-type: none"><li>Contributed to battery pack architecture and BMS prototyping, through early-stage design and testing workflows</li><li>Designed, 3D-printed and created technical drawings for structural mounts and frames for the electronics shelf using Solidworks</li><li>Conducted lithium-ion cell and fuse testing, to validate pack safety and inform efficiency improvements</li></ul> |                     |
| <b>UW Crowd – Hack the North</b>   | Sept 2025           |
| <ul style="list-style-type: none"><li>Developed real-time campus occupancy website using Raspberry Pis' to scan for Bluetooth Low Energy signals, helping students plan around crowds.</li></ul>   |                     |
| <b>AI Voice Assistant</b>  | August 2025         |
| <ul style="list-style-type: none"><li>Built an AI voice assistant using Whisper and LLM Dialogue, enabling real-time conversations</li><li>Modeled a 3D robot avatar that reacted to emotions, via a custom neural network mapping emotion metrics to joint angles, delivering human-like AI interaction</li></ul>   |                     |
| <b>Synthetic Data Generator</b>  | July 2025           |
| <ul style="list-style-type: none"><li>Built a synthetic data generator to solve AI training data scarcity, with a pipeline that combines CTGAN generation and LLM enrichment to create large and flexible datasets</li></ul>   |                     |

## TECHNICAL SKILLS

---

**Languages:** C++, Python, JavaScript, HTML/CSS  
**Frameworks & Tools:** SolidWorks, AutoCAD, React, FastAPI, Flask, SimScale, Docker, Git, AWS Cloud, Kaggle  
**Libraries:** TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Matplotlib, CTGAN

## AWARDS & ACHIEVEMENTS

---

**Academic:** 4.0 GPA, 43/45 score on the IB Diploma  
**Governor General Academic Bronze Medal:** Highest academic average, 250+ students  
**Leadership:** Hockey Assistant Captain & Low Brass Section Leader  
**Colonel By S.S. Graduate Award:** Academic, athletic, and leadership excellence

## EDUCATION

- 
- |  |                             |
|--|-----------------------------|
| <b>University of Waterloo</b><br><i>Bachelor of Applied Science in Mechatronics Engineering</i>                    | Waterloo, ON<br>2025 - 2030 |
| <b>Colonel By Secondary School</b><br><i>Ontario Secondary School and International Baccalaureate (IB) Diploma</i> | Ottawa, ON<br>2021 – 2025   |