

Derrell Nofiel

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SUMMARY OF QUALIFICATIONS

- Electrical Engineering student with hands-on experience in product testing, competitive analysis, and technical reporting.
- Proficient in computer hardware, software, and circuit design using EAGLE, Micro-Cap 12, Quartus Prime, and FPGA development.
- Strong problem-solving and troubleshooting skills developed through hardware testing and debugging projects.
- Exceptional verbal and written communication skills, demonstrated through technical documentation and presentations.
- Detail-oriented with strong organizational and multitasking abilities in fast-paced environments.
- Passionate about technology, innovation, and research, with a strong drive for learning and improving product development processes.

EDUCATION

Bachelor of Electrical Engineering
Western University, London, Ontario

Sept 2023 – April 2027

ENGINEERING PROJECTS

PCB Function Generator | *EAGLE PCB, Micro-Cap 12, Soldering, Breadboard Prototyping*
Western University

Nov 2024 – Dec 2024

- Designed and implemented a custom function generator circuit capable of producing square, triangle and sinusoidal waveforms using TL082 op-amps
- Simulated, designed, and validated digital circuits through transient analysis
- Prototyped a custom PCB soldered with off-the-shelf components, reducing cost by 50%

Digital Logic Sequence Detector | *Quartus Prime, FPGA Board, Circuit Prototyping*
Western University

Nov 2024 – Dec 2024

- Designed and implemented an efficient Moore FSM-based sequence detector circuit
- Simulated and debugged circuit functionality in Quartus Prime software and an FPGA board
- Conducted cost analysis using K-maps and Boolean algebra
- Documented the complete design process including schematics, state tables, and cost analysis in a concise report

Rock Climbing Aid for the Visually Impaired | *MS Office*
Western University

Jan 2024 – April 2024

- Supported a team of engineers to design, prototype, and debug an assistive device for visually impaired rock climbers
- Led team meetings and delegated tasks to maximize workflow while staying within budget and time constraints
- Utilized a value comparison matrix to implement the most budget and time-friendly solution
- Presented and demonstrated a fully functioning prototype to a panel of judges, detailing functional performance and cost analysis

WORK EXPERIENCE

Student Maintenance Administrator

May 2024 – Aug 2024

Dr. Oetker Canada Ltd., London, Ontario

- Executed maintenance purchase orders and generated reports using SAP MM and MS Excel
- Analyzed and resolved inventory discrepancies, implementing corrective procedures
- Assisted in managing purchase orders, package receiving, stock placement, item labeling, cycle counting, and stock revaluations with minimal supervision
- Communicated with vendors to re-supply critical stock parts ensuring production continuity