Blake Henriques Stephenson

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PROFESSIONAL SUMMARY

Electrical Engineering student at McMaster University with practical co-op experience and a strong foundation in PCB design, automation, and software development. Demonstrated success in collaborative environments, skilled in troubleshooting and design optimization, committed to delivering high-quality and efficient solutions.

EXPERIENCE

May 2022-August 2023 **Electrical Automation Engineer Co-Op**, *L3Harris Technologies*

- Conceptualized and developed PCBs, test jigs, and wire harnesses tailored for advance test equipment.
- Engineered and implemented components for a battery-operated, portable tool, significantly enhancing lens throughput by 300%.
- Devised and refined test procedures for Electromechanical Assemblies (EMAs), enhancing system reliability.
- Utilized OrCAD, Allegro PCB, and AutoCAD for creating and updating electrical design schematics.

July-August 2021 **Glazier**, *FT Group*

- Precision cutting and installation of windows, honing skills in teamwork and communication.
- Maintained high safety and organization standards in dynamic team settings

SKILLS

- **Programming Languages:** Java, Python, Dart, C++, C, MATLAB, JavaScript (JS), CSS, HTML, SQL
- **Engineering Software & Tools:** LabVIEW, PSpice, AutoCAD, Fusion, OrCAD, Allegro PCB Design

PROJECTS

Standing Wave Simulation

- Engineered a 2D standing wave simulation, replicating experiments from National Yang Ming Chiao Tung and Taiwan Ocean University using streamlined algorithms.
- Developed a Python-based user interface enabling dynamic customization of input parameters.

MEC Senior Design – Team: Drip Systems

- Captained the first-place team at the McMaster Engineering Competition, advancing to the Ontario Engineering Competition.
- Specialized in system integration for sensors and motors, utilizing C++ for microcontroller programming.
- Presented technical aspects and functionality to judges, highlighting project innovation and applicability.

EDUCATION

2019-2024 **Bachelor of Electrical Engineering**, McMaster University

3.8 GPA