Antonio Starker

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Highlight of Qualifications

- Enrolled in level 4 of Automation Systems Engineering Technology Co-op program, seeking 4-month co-op placement starting May 2028
- Strong experience in control and manufacturing automation through industry internships
- Demonstrated teamwork, communication and organizational skills through extracurricular design team projects and internships

Education

Bachelor of Technology Co-op (BTech) | *Automation Systems Engineering Technology* *2024 – 2029*

McMaster University, Hamilton ON

- Enrolled in an interdisciplinary program combining electrical engineering, software engineering, and business management
- Completing 2 additional and concurrent credentials: an advanced diploma in Process Chemical Engineering Technology and a business management certificate
- Software Systems Specialisation Coursework: Cyber Security, Data Structures and Algorithms, Software Architecture, Fundamentals of Networking, Advanced Cyber Security

Experience

Controls & Automation Engineering Co-op *Jan – Aug 2027*

Hatch, Mississauga ON

- Delivered 15+ electrical and control system design deliverables (e.g., P&IDs, single-line diagrams, loop diagrams) by collaborating with multidisciplinary teams across global projects
- Improved design accuracy through detailed voltage drop, grounding, and lighting calculations using **ETAP** and **EasyPower**
- Enhanced system reliability by supporting instrumentation and control system architecture development, including network diagrams and control philosophies
- Contributed to inspections and design reviews, ensuring compliance with CSA, NEC, and IEC standards

Manufacturing Engineering Intern *May - Aug 2026*

Honda, Alliston ON

- Reduced assembly line downtime by 22% by developing **Python**-based diagnostic tools to monitor **PLC**-controlled systems and flag anomalies in real time
- Designed and implemented a fixture validation protocol using **SolidWorks** and **LabVIEW**, improving test coverage for critical drivetrain components by 30%
- Automated data collection from torque sensors and vision systems using **C++** and **CAN** bus, increasing test throughput by 15%
- Collaborated with cross-functional teams to optimize robotic cell layouts, demonstrating adaptability, communication skills and team work ability

Restaurant Associate | *Quick Chick* *May – Aug 2025*

- Managed high volumes of customer orders during peak hours, demonstrating time management, attention to detail, and communication skills
- Worked closely with coworkers to maintain flow and efficiency, highlighting teamwork ability in fast-paced settings
- Resolved customer complaints and difficult situations, showing professionalism and problem-solving skills in real-time situations

Projects

Cloud-Native File Storage System | *Personal Project* *Sept – Dec 2027*

- Designed a secure and scalable file storage platform, highlighting abilities to work with cloud-native technologies and serverless architecture
- Deployed a serverless backend using **AWS Lambda**, **API Gateway**, **DynamoDB**, and implemented RESTful APIs using **FastAPI** (**Python**), showing proficiency in software development
- Integrated JWT-based authentication with **AWS Cognito** and set up CI/CD pipelines using **GitHub Actions**, highlighting adaptability to multiple technologies and software tools
- Applied system design principles to build modular architecture, emphasizing comfort with project management, design thinking and problem-solving

Extracurricular Activities

Aerodynamics Sub-Team Member | *McMaster Formula Electric Team* *Sept 2025 – Present*

McMaster University, Hamilton ON

- Designed, analyzed, tested, and validated the vehicle's aerodynamic package, including the front wing, rear wing, nosecone, and radiator ducts
- Utilized 2D and 3D **CFD** and **FEA** to optimize downforce creation and drag reduction, improving handling and traction by 20%, and overall efficiency by 15%
- Collaborated with suspension, steering, and cooling sub-teams to integrate airflow and vehicle dynamics considerations, enhancing overall vehicle performance by 25%
- Conducted iterative improvements and optimizations based on fundamental concepts and research, reducing lap times by 10%
- Achieved significant reductions in lap times through enhanced aerodynamic performance

Additional Skills & Certifications

Software: Autodesk Inventor, Fusion 360, C/C++, ROS, MATLAB, Simulink, MS Office, GSuite

Miscellaneous Skills: 3D printing, Machining, laser cutting, tensile test, G-class driver's license

Certifications:

Standard First Aid with CPR-C - *YMCA of Greater Toronto* *April 2025*

WHMIS Training Certificate (Online) - *Canadian Safety Training Centre* *September 2024*