





# Chris Parker, M.B.A., B.Eng

## CONTACT

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## SOFTWARE SKILLS

Python

SQL

Go

React

R Studio

JavaScript

TypeScript

Rest APIs

Familiarity with AWS

HTML/CSS

## EDUCATION

MBA - Business Analytics

McMaster class of 2022

B.ENG - Mechatronics & Management

McMaster class of 2021

## WORK EXPERIENCE

### SOFTWARE DEVELOPER | Lineside Automation | Kitchener | Sept 2022 – Present

Developed a nextjs, React app in TypeScript to simplify internal project management and design functions using libraries including trps, oAuth, and prisma

- Deployed on AWS using EC2, RDS, and Route 53
- Includes a relational database of parts, projects, vendors, manufacturers, and historical data
- Allows designers to pick parts from the database to build project bills of materials
- Allows project managers to generate POs and packing slips and track goods ordered, received, and consumed. Reduces time to complete these administrative tasks by 80%
- Enforces standardized workflow, virtually eliminating inventory accounting errors
- This web app serves as the foundation for future enterprise software development

Developed PLC software to perform process control

- Psychometric control of humidity and temperature to achieve the minimum enthalpy solution of bring supply air within acceptable heat and relative humidity
- Data collection and logging in automated processes to enable tracking of asset utilization
- Encoder installation tool that can be parameterized by technicians for a diverse set of use cases

Developed tools using Python to simplify repetitive tasks including the parsing and generation of repetitive PLC logic

Oversaw designers and co-op students on various projects

### CONTROLS ENGINEER | Brock Solutions | Kitchener | June 2021 – Sept 2022

Designed, programmed, tested, and commissioned baggage handling systems

- PLC programming of baggage handling systems (TL6269)
- Executed detailed unit test plans and made bug fixes as appropriate
- Participated in large system tests and data logging verification during commissioning

### TEACHING ASSISTANT | McMaster University | Hamilton | Sept 2020 – April 2021

Led tutorials in embedded systems software design

- Programming FRDM-ARM64 microcontroller in C

### SIMULATION SOFTWARE DEVELOPER | Toronto Pearson Airport | Mississauga | May 2019 – Aug 2020

Worked with the Facility Systems Engineering team on a diverse set of projects

- Performed simulation in FlexSim, using the object oriented FlexScript language
- Simulated environments included the baggage handling systems at the airport as well as the flow of airplanes on the air field
- Used simulation results to create and asses project alternatives
- Wrote business cases and presented simulation results to stakeholders. Promoted cost effective project alternatives