




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

## CONTACT

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## EXPERTISE

- Problem Solving
- Troubleshooting
- Testing & Commissioning
- Leadership
- Org Culture

## SOFTWARE SKILLS

- Python
- SQL
- C
- React
- R Studio
- JavaScript
- TypeScript
- Familiarity with APIs
- Familiarity with AWS
- HTML/CSS

## WORK EXPERIENCE

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

Developed a nextjs React app to simplify internal project management and design functions using libraries such as 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. Enforces standardized work flow and eliminated misordering issues
- This web app serves as the foundation for future enterprise software development

Designed PLC software to perform process control including;

- Algorithm for psychometric control of humidity and temperature to achieve minimum possible energy consumption
- Data collection and logging to enable tracking of asset utilization
- Encoder installation tool that can be parameterized by technicians for a diverse set of use cases

Built 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

### PROCESS CONTROL SOFTWARE DEVELOPER | Brock Solutions | Kitchener | June 2021 – Sept 2022

Designed, programmed, tested, and commissioned baggage handling systems

- PLC software design
- Executed detailed test plans to verify software 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 course

### 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
- Contributed to business cases and presented results to stakeholders to promote cost effective project alternatives

## EDUCATION

MBA - Business Analytics | McMaster University | Class of 2022

MBA with a focus on machine learning, simulation, and data analysis

B.ENG - Mechatronics & Management | McMaster University | Class of 2021