

# Ben Krowchuk, BAsC

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🌐 ben-krowchuk

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## EDUCATION

2016 – 2021

### BAsC, Mechatronics Engineering Co-op, Honours

Faculty of Engineering, University of Waterloo

- Graduated with Distinction

## EXPERIENCE

06/2020 - 08/2020

### ODI | ROBOTICS AND AUTOMATION SOFTWARE DEVELOPER CO-OP

Kitchener, ON

- Developed and presented **UI/UX** proposal for new software solution
- Involved in the initial setup, planning, and development of **Saas** tool
- Worked on updating user feedback options for tracking and understanding trends in **C#**

09/2019 - 12/2019

### LOTLINX | SOFTWARE DEVELOPER CO-OP

Hamilton, ON

- Developed and migrated **Airflow** DAG framework
- Fixed over **1250** blocking bugs
- Wrote over **70** unit tests

01/2019 - 04/2019

### BLACKBERRY | ANDROID SOFTWARE DEVELOPER

Waterloo, ON

- Implemented key **features** for the BlackBerry Hub+ Inbox application
- Effectively participated in **bug-tracking** and clean-up
- Expanded automated tests and testing frameworks for mobile applications

05/2018 - 08/2018

09/2017 - 12/2017

01/2017 - 04/2017

### SYNCHRO ENGINEERING LTD | JUNIOR PROGRAMMER | AUTOMATION AND

CONTROLS ENGINEERING

Niagara Falls, ON

- Designed and implemented an **android** application for quoting purposes to improve **CRM**
- Utilized google **firebase** cloud databasing capabilities to provide dynamic databases for quoting application
- Used **VBA** to decode and encode **JSON** files to link the mobile quoting solution to the desktop excel application
- Produced a desktop excel application to automate the quoting process
- Constructed automated mileage, data, and material cost sheets in excel VBA resulting in **saved time** and **reduced costs** to business
- Created a purchase order generator using Excel VBA

## PROJECTS

06/2021 - Present

### YAMLY | EXPENSE TRACKER

- Using **Electron, React, Material UI, Chartjs** and several other packages to create a desktop application for tracking and charting expenses and income over time
- **Python** backend utilizing a **PostgreSQL** database
- **Docker** is used to contain the application as multiple OS are being used in development

09/2020 - 04/2021

### 4A/B SYNTHR | EDUCATIONAL SYNTHESIZER

- Created several electrical simulations using **LTspice XVII**
- Drafted custom schematics and printed circuit boards in **Altium Designer**
- Built 3D CAD models of faceplates using Eurorack standards in **Solidworks**

01/2020 - 04/2020

### 3B TERRAIN CRAWLER | ROBOT

- Lead **electrical** member of team and **mechanical** support
- The task is to **design and implement** a mechatronic system that can **autonomously navigate** a path over different terrain: flat wood, pits, sand, gravel
- Lead **conceptual design** and decision making process

## SKILLS

### SOFTWARE SKILLS

• JavaScript • React • Python • C++ • VBA • Excel • Git • HTML • CSS