Kyle Rassweiler

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Education

Electro-Mechanical Engineering Technician

Algonquin College

- Embedded development
- plc programming
- circuit and pcb design
- motor controls
- industrial robotics
- microcontrollers

Computer Animation

Algonquin College

- Traditional animation
- •3d animation
- Rigging
- Modelling
- Python

🖈 Skills

•Assembly(PIC)

- C++
- CAD
- DB (SQLite, PostgreSQL, Mongodb)
- Docker
- •Git
- HTML
- JavaScript
- Linux
- Node
- PLC (Mitsubishi, Toyopuc, AB, Omron, Siemens)
- Proxmox
- Python
- •Qemu/KVM
- •Qt
- React
- Redux
- Robots (Kawasaki, Nachi,Panasonic, Yaskawa)
- SCSS
- Typescript
- Vision (Cortex/Robeye, Keyence, Omron)

よ Summary

I'm an Engineering specialist with experience in both software and hardware development with schooling focused on embedded development and robotics. I'm a self starter and quick to learn new technologies.

Controls Technician

- Software Development
- Commissioning
 - Instrumentation & Calibration
- HMI design
- PLC programming (AB, Siemens, Omron)
- SCADA system design
- Building Automation (Ecostruxure)
- CAD DesignAdditive Manufacturing
- Additive Manufactur.
 Electrical Diagrams
- Workorder management
- Project management
- Vision Systems (Keyence, Cognex)

Engineering Specialist

- Software Development (VBA, JS)
- Commissioning
- HMI design
- PLC programming (GXWorks, Toyopuc)
- 3D factory design/ CAD (Delmia)
- Robot programming
- Robotic vision (Robeye, Cortex)
- Project management
- Vision Systems (Keyence, Omron)

Robotics Technician

- Software Development (VBA, JS, React)
- Commissioning
- HMI design

Site

O Source

Krello

Site

O Source

Demo

- PLC programming (GXWorks, Toyopuc)
- Robot programming

Networked Counter

• Project management

🛱 Experience

Canopy Growth (2023-Present)

Implemented additive manufacturing process and taught maintenance/ engineering groups CAD systems, saving the company \$160000 in part purchases within a year.

Implemented an embedded system I designed to count products and pacing while uploading the data to sharepoint, saving the company \$19500 per unit compared to licenses for existing solutions.

Toyota (2017-2023)

Managed project implementation during non production time, ensuring no issues affect production and quality.

Implemented a new teach method that saved 75% of equipment recovery time, using a 4 point beforeafter comparison.

Setup production lines in 7 plants across North America for: Rav4, Camery, Hilander, Lexus NX, and Lexus RX. Production earned roughly 89 billion USD in 2022 across North America.

FIO Automotive (2014-2017)

Developed a proof of concept SCADA system using Angular, MongoDB, and Node.js. The system allowed management to track downtime and target repeat issues during a 24/7 production period.

Setup networking for all production lines in order to implement my proof of concept and collect data to a MSSQL database.

🕈 Projects

(Rasberry Pi, Python, Qt, Sqlite, Sharepoint)

3d printed counter using Pi5, python, pyqt6, and sqlite that can export to folders or sharepoint. Used to count items travelling across one or two sets of infra red sensors.

(Typescript, React, tRPC, Nextjs, NextAuth, Prisma, Vercel, Planetscale)

A simple kanban web app made using Nextjs, React, tRPC, NextAuth, Prisma, and Typescript. The app is hosted on Vercel and Planetscale.