

Kyle Rassweiler

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[Portfolio](#) | [Github](#) | [LinkedIn](#)

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.

Skills

Software	Angular, Assembly(PIC), C++, CMake, Django, Git, HTML, JavaScript, Mongoose, Node, PHP, Python, React, Redux, SCSS, Typescript, VBA
Virtualisation	Docker, Proxmox, Qemu/KVM, XCP-NG
Systems	Arch, Debian, FreeBSD/OpenBSD, Windows
Databases	MongoDB, MySQL, PostgreSQL, SQLite
Hardware	Arduino, PIC, Raspberry Pi, Zigbee
PLC	Mitsubishi, Toyopuc, AB
Robots	Kawasaki, Nachi, Panasonic, Yaskawa

Projects

React Pagination (Javascript, CSS, HTML, Node, React)	A Hatchways assesment for React front-end work. The project required the addition of a pagination system for a sample blog site. Source
Random Quote Machine (Javascript, SCSS, HTML, Node, React, Bootstrap)	A FreeCodeCamp project that generates random tweetable quotes using React. Source
Markdown Preview (Javascript, SCSS, HTML, Node, React, Bootstrap)	A FreeCodeCamp project that will preview markdown input into a seperate editor window. Source
Krello (Javascript, SCSS, HTML, Node, React, Redux)	A simple Trello clone developed using react and redux with jest and enzyme for testing. Used Javascript, SCSS, and HTML to style the react components. Site Source
Kawasaki AS Parser (Typescript, SCSS, HTML, Node, Electron)	A Kawasaki robot backup parser library written in TypeScript. Used to assist with analysing robot data in a seperate Toyota project. Site Source

Certificates

Free Code Camp

JavaScript Algorithms and Data Structures

July 2022

[Certificate](#)

Free Code Camp

Responsive Web Design

June 2022

[Certificate](#)

Experience

Engineering Specialist

Commissioning, HMI design, PLC programming, Robotic Vision (Robeye , Omron, Keyence), 3D Factory Design (CAD), Robot programming, Project Management, Tools Programming (VBA, Powerbi, Electron).

2017 – Present

TEMA (Toyota)

Highlights

- 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 before-after 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.

Robotics Technician

HMI design, PLC programming, Robot programming, SCADA programing.

2014 – 2017

FIO Automotive

Highlights

- 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.

Operational Technician

PLC programming, Robot programming.

2012 – 2014

Abbott Point Of Care

Education

Electro-Mechanical Engineering Technician

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

Algonquin College

Computer Animation

Traditional animation, 3d animation, riging, modelling, python scripting, layout.

Algonquin College