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

Krello *(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. Site | Source | Demo
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 *(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. Site | Source | Demo
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

Certificates

Free Code Camp *July 2022*	JavaScript Algorithms and Data Structures [**Certificate**](#)
Free Code Camp *June 2022*	Responsive Web Design [**Certificate**](#)

Experience

Engineering Specialist

2017 — Present

Work4ce (Toyota)

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

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

2014 — 2017

FIO Automotive

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

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

2012 — 2014

Abbott Point Of Care

PLC programming, Robot programming.

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, riging, modelling, python scripting, layout.