Kevin Kohls

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# Headline

Experienced engineer and programmer diving into web development

# Summary

A programmer with a wide-scope of programming skills, from robotics, Automated Guided Vehicles, Vision Systems to Client-Side JavaScript, React skills, to Server-Side SQL and Node.js knowledge.

# Education

MS Electrical Engineering / Purdue University

BS Electrical Engineering / Kettering University

# Skills

JavaScript, React, SQL, JSX, Firebase, Node.js Version Management System

Programmable Logic Controllers, Robotic Programming, Plant Network Systems, Vision Systems

Theory of Constraints | Lean Six Sigma | Critical Chain Project Management

FORTRAN | COBOL | RPG | Lisp | Prolog | Python | Raspberry Pi

# Experience

## General Motors

### Senior Electrical Engineer

Plant Floor Controls, Robotics Programming, Automatic Guided Vehicles

### Senior System Analyst

Plantwide Networks, plant wide data collection for simulation analysis

*Group Manager*

Managed 50-member team that:

* Collect machine performance data across plant networks
* Performed analysis to both find and resolve bottlenecks
* Designed and Implemented Throughput Improvement Process

*Director – Throughput Analysis and Simulation*

* Used Simulation with and plant floor data to develop analytical approach to plant design
* Reduced Launch time from months to weeks

## Soar Technology

*Executive Vice President of Technical Operations*

Directed 15 matrixed scientists and administered $3M budget for AI projects.

* Achieved 7% growth rate through balanced work load methods using Critical Chain Project Management and Agile methods.

## Production Modeling Corporation

*Consulting Services for simulation, scheduling and project management*

***Gardner Denver***

*Director of Lean*

Decreased lead time of key product from 18 weeks to 4 weeks by implementing the new Demand Driven MRP system

***Spirit AeroSystems***

*Consultant*

Reduced inventory, reduced lead-time, and increased throughput in 737 Pylon. Inventory reduction exceeded $1M.

***Rex Materials Group***

*Director of Supply Chain and Scheduling*

# Implemented a SaaS Critical Chain Project Management system (LiquidPlanner), using their API. Increased their OTP >95%.

***Kohls Consulting***

*President*

* Simulations, data analysis, Demand Driven MRP simulations
* Webpage development
* Data Collection systems using Visions Systems, Raspberry Pi, Python
* Vector Robot Programming using recently released SDK

# Awards and Acknowledgements

INFORMS Franz Edelman Award

GM’s Boss Kettering Award for Innovation

GM’s Chairman’s Honor Award

***Publications***

Addicted to Hopium – Throughput