Brennen Sprimont

SOFTWARE ENGINEER · EMBEDDED ENGINEER · FULLSTACK ENGINEER · LIFELONG LEARNER

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Experience

Wabtec Railway Electronics   *Cedar Rapids, Iowa*
SENIOR SOFTWARE ENGINEER   *March 2017 - Current*

- Develop safety critical systems for an embedded real time train safety, metric analysis, and communication system.
- Develop linux based embedded operating systems and environments.
- Develop software on real time operating systems.
- Develop firmware for ARM based systems.
- Develop real time data capture, queueing, and reporting tools.
- Develop simulators to debug and test complex embedded systems.
- Develop hardware test fixtures to simulate input signals.

Programming Languages	C, C++, Python, C#, ARM Assembly
Embedded Environments	Linux, LynxOS, QNX, FreeRTOS
Data Systems	PostgreSQL, Apache Kafka, AWS SQS, Azure Event Hub
Web Systems	Django, Flask
Tooling	git, svn, gcc, make, Linux, LynxOS, QNX, Windows, LXC, Rational Team Concert, Doors Next Generation

Rockfarm Logistics   *Dubuque, Iowa*
SOFTWARE ENGINEER   *May 2015 - March 2017*

- Develop real time logistic communication systems between clients and shippers.
- Develop reporting tools for logistic networks.

Tools/Technologies	C#, Python, MySQL, MSSQL, ASP.NET MVC, ASP.NET, git, Trello, Visual Studio

University of Wisconsin Platteville   *Platteville, Wisconsin*
WEBSITE DEVELOPER   *August 2014 - May 2015*

- Develop web systems for the University of Wisconsin Platteville.
- Develop equipment databases and inventorying systems.

Tools/Technologies	C#, ASP.NET, MSSQL, NHibernate, svn

Education

University of Wisconsin Platteville   *Platteville, Wisconsin*
B.S. IN COMPUTER SCIENCE (EMPHASIS IN MATHEMATICS)   *August 2012 - May 2016*

Skills

Programming Languages	Python, C, C++, C#, JavaScript, Java, ARM Assembly
Scripting Languages	Posix Shell, Bash, Perl, Batch, Powershell
Communication	TCP/UDP Sockets, CAN BUS
Electrical Engineering	Read PCB Schematics, Read Data Sheets, Create simple pcbs (kicad), Soldering, Use Oscilliscopes/Common tools
Data Systems	PostgreSQL, MySQL, Apache Kafka, AWS SQS, Azure Event Hub
Operating Systems	Linux, FreeRTOS, Windows, LynxOS, QNX
OS Dev Tools	Buildroot, Busybox, QEMU, KVM, Linux tooling (gdisk, losetup, kpartx, etc.)
Web	Django, Flask, ASP.NET MVC, ASP.NET, Node.JS, HTML5
Containers	LXC/LXD, Docker
Build Tooling	gcc, make, CMake, Visual Studio, IAR
Change Management	git, svn, gitlab ci, Rational Team Concert, Doors Next Generation