

# Bill Adams

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Passionate and self-motivated full-stack developer with **20+ years of experience** managing data and integrating complex systems including enterprise software, ERP, and shop-floor solutions while engaging with cross-functional teams ranging from operators to executives.

C# • .NET Core • .NET 6+ • ASP.NET MVC • Blazor • Razor  
Swagger/OpenAPI • Git • Azure DevOps • Linux • RHEL • Ansible  
Python • JavaScript • JQuery • HTML • CSS • Bootstrap • perl • bash  
MySQL • SQL Server • SQL • ETL • Data Warehouse • Parquet  
SAP (ERP) • PROMIS (MES) • Workstream (MES) • Camstar (MES)

## EXPERIENCE

**Skyworks Inc.** - Hillsboro, OR

2018 - Present

*Skyworks is a semiconductor manufacturer focused on RF chips including power amplifiers for mobile phones.*

Sr. Manger, Sr. Developer – Custom Factory Software

Serving in multiple roles over tenure including IT Manager, Data Engineer, Software Architect, Primary Software Developer, Mentor, and Linux System Administrator. Manage projects using a SCRUM like process (modified to satisfy managerial reporting requirements) in Azure DevOps. Authored many internal documents including setup guides and troubleshooting guides with inline flowcharts using mermaid. Author and co-author business requirements documents and technical documents. Manage contract programmers.

Project highlights:

- **Swagger/OpenAPI Interface to MES (2021)**  
Created an ASP.NET/MVC/Swagger interface to a legacy system with an obtuse API. System both extracts information and transacts within the system. Became the company standard for external programs to interact with MES. Written to be MES agnostic from the user's point of view.  
C#, ASP.NET API, Swagger, OpenAPI, JSON, OData
- **Precious Metals Accounting System (2022)**  
Created a system to track precious metal usage to reduce a seven-figure gap between expected reclaim amount versus actual from the old system. Double entry tracking with full audit table of all transactions. Interfaced with equipment automation and the legacy system.  
C#, ASP.NET MVC, Blazor, Bootstrap
- **SAP Hana to PROMIS Gateway (2023)**  
Converted a c program to c# which interfaces with SAP to create lots in the factory based on production orders from SAP. Feeds back shipments from the factory to inventory to SAP. Created a web dashboard to monitor the system.  
C#, AzureDB, Azure API, XML, xUnit
- **Electrical Test Data Analysis Database and WebApp (2018)**  
Wrote file parsers and database loaders. Parallel Parquet and RDMS tables for fast extraction of millions of records. Optimized SQL and c# code using BenchmarkDotNet. Custom code modifications to Apache Drill to make Spotfire extracts extremely fast. Automated data analysis page to enable operators to disposition materials without process engineering involvement. Experimented with Cassandra.  
C#, ASP.NET MVC, SQL, MariaDB, Parquet, D3.js, JQuery, Apache Drill, Java, BenchmarkDotNet, xUnit

## FourReasons, LLC - Portland, OR

2018

*FourReasons is a private provider of accounting and bookkeeping services.*

### Software Consultant (Contract)

- Developed a Python web app that enables generation of instant quotes based on complex rules, reducing time to generate quote from over one hour to under fifteen minutes. Maintains change history.  
Python, HTML, HTML Templates, CSS, JavaScript, JSON, SQLite

## Qorvo (Previously TriQuint Semiconductor) - Hillsboro, OR

1996 - 2018

*Qorvo is a semiconductor manufacturer focused on RF chips including power amplifiers for mobile phones.*

### Developer, Manager – Internal Custom Software

Served in multiple roles over tenure including Process Engineer, IT Manager, Data Engineer, Software Architect, Primary Software Developer, and Linux Systems Administrator.

### Project highlights:

- **ERP / Shop Floor Integration** (2017)  
Member of a large cross-functional Agile team responsible for integrating a new SAP ERP instance with a critical shop floor control product (MES). Enhanced other systems to work with multiple SAP instances until cut-over.  
C#, .NET Core 1.x, ASP.NET MVC, SQL Server, MySQL, Informix, SAP S/3 (ERP), Workstream (MES)
- **Chemical Check Safety System** (2010)  
Built a system to ensure correct and non-expired chemicals are used in equipment to prevent accidents and factory evacuations. The system sent alerts when expired chemicals were used and ensured only certified technicians were able to handle chemicals.  
perl, HTML, CSS, JavaScript, MySQL, SQL Server, SAP, Workstream (MES), SVN, Apache HTTP
- **Document Management System** (2002)  
Designed and built an ITAR and ISO-9001 compliant document management system with features including electronic sign-off loop, self-service notifications, and complex administrative functionality. Integrated system with training, equipment lock-out, and MES. System has been a critical factory system for 15 years.  
perl, MySQL, HTML, CSS, JavaScript, SMTP, CVS, Apache
- **Factory Data Management** (1997)  
Wrote and maintained data pipeline to pull, transform, load, and archive equipment data that provides near real-time support for feedforward, feedback, and go/no-go decisions on material. Developed numerous web services feeding data to equipment and factory automation systems.  
perl, ETL, SQL, T-SQL, MySQL, SQL Server, InformixWorkstream (MES), Camstar (MES), Statistics, STDF, ATD, XML, XSLT

## EDUCATION

**University of California at Berkeley**, Double Engineering Degrees: BS in Electrical Engineering & Computer Science; and BS in Material Science and Engineering

## CONFERENCES

**Presenter** "Relational Databases: Data Analytics Beyond Spreadsheets and Single-Table Databases", CS ManTech (April 2018)

**Attendee** ML4All (May 2018)

## HOME LAB & HOBBIES

Spanish, Machine Learning, RabbitMQ, pfSense Firewall Admin, Breadboard Circuits, Soldering, PIC, Fixing Pinball Machines, Home Assistant, ESP Home