PROJECT DEVELOPMENT HIGHLIGHTS

Micron Technologies Inc. (FTE)**,** *__Electronic/Mechanical Technician__* (4/96 - 11/98)**,** Boise ID   **1996-2000**
- Designed a bracket to hold quick-disconnect fittings to prevent the need to take a machine out of service to replace vacuum tubing after repeated tests from connecting and disconnecting a vacuum gauge that scarred the end of the tubing caused the technicians to cut the tubing a little bit at a time. This had become a major problem.
- Designed a Lock Out/Tag Out cover plate for mobile remote control consoles to prevent the removal from the machine tool while preventative maintenance was being performed which would generally shut down the machine, potentially causing damage to the machine or injuring a technician.
- Designed a four port fluid/slurry delivery pass-through connector block to prevent splash ring destruction during routine machine maintenance, generally caused by operator error. Too many splash rings were being destroyed.
- Reformatted several Excel spreadsheets and MS Access databases to make data collection more efficient.
- Developed an automated data processing conversion tool – Excel VBA app designed to transpose measurement data (the thickness of materials deposited on a wafer) to chart the CMP process for Statistical Process and Quality Control (SPC/SQC). Reduced hours of manual cut/paste by engineers to chart the process down to minutes of automated processing time, with many pre-configured options to select from, and an easy way to manually enter, and save, split lot criteria if a pre-configured option was not available.
- During a review, was told by the engineering manager that I had more ideas than all the other technicians and engineers put together.

Micron Technologies Inc. (FTE)**,** *__Web Technologist / Technician__* (11/98 - 4/00)**,** Boise ID   **1996-2000**
The Web Technologist position was created within the Fab for me to do web development projects (a non-IT position).
- Facilities Work Schedule (1st major project) – worked with the Facilities Coordinator to increase the visibility of projects occurring in the factory by the trades to reduce the amount of scheduling conflicts and eliminate the work being performed that had been rescheduled or cancelled and not communicated. Combination of ColdFusion and Classic ASP w/ VBScript, ERwin 4.1 for DB modeling, tied to a SQL Server 7 DB (UI, Middle Tier, Backend, & db).

The Boeing Company, (contract), *__Software Engineer__* (11/03 - 11/04), Everett, WA   **2003-2005**
Contracted to convert MS Access db applications to web-based solutions.
- Integrated MRSA (parts) and Red Label (experimental/test parts only) by combining multiple MS Access databases to a web-based application tied to a SQL Server 2000 database (UI, Middle Tier, Backend, & db); Classic ASP w/ VBScript; ColdFusion Studio and SQL Server Management Studio (T-SQL, ERwin 4.1 database modeling) on Windows Server 2000. Both Access databases were always out of sync, and had to overcome extreme resistance to combining the databases by demonstrating a unique table structure and permissions model, after which the combined application model was accepted.

The Boeing Company, (contract), *__Access Programmer__* (05/05 – 11/05), Renton, WA   **2005**
Contracted with the Safety & Certification program to convert 40+ MS Access 97 database to MS Access 2002. Updated the Access front-end, migrated data into a single table and created new forms and reports for FAA submission; Utilized SQL Server 2000 to run tests and migrate data on Windows Server 2003.
- 2 week contract was completed in 2.5 days, and was asked to help troubleshoot issues with an ASP.NET app in development. Learned C# within 2.5 days to help the primary developers solve UI and backend issues.
A 2 week contract was extended to 6 month, and was offered the same job as a FTE Software Engineer.

The Boeing Company, (FTE), *__Analyst / Developer 3__* (11/05 - 01/08), Auburn WA   **2005-2009**
Provided support for the Tube, Duct & Reservoir Center system development initiatives.
- Assigned to convert an engineering data GUI comprising several dozen MS Access databases, with hundreds of macros and 800+ queries, to web-based solution (UI, Middle Tier, Backend, & db); ASP.Net w/ C# connected to Oracle 10g; VS.Net 2003 and Toad for Oracle (PL/SQL, ERwin 4.1 database modeling) on Windows Server 2003.
- Automated Parts Labeling System (APLS) – Obtained Imaje API and redeveloped the legacy APLS ink jet printer interface (C program) to a VB.NET desktop app that provided feedback to the operator to ensure that parts were marked correctly, eliminating part mismarking by 100%. Also added a connection to a SQL Server database to store and display special operator handling instructions for scanned parts. (UI, Middle Tier, Backend, & db)

The Boeing Company, (FTE), *__Programmer / Analyst 3__* (01/08 – 04/09), Everett WA   **2005-2009**
- Raw Material Forecast System (RMFS) – developed the supplier data admin interface (UI, Middle Tier, Backend, & db); ASP.Net w/ C#, Oracle 10g, Teradata, custom MS Excel VBA macro to transform XML supplier data; VS 2005 and Toad for Oracle, PL/SQL, ERwin 7 database modeling, on Windows Server 2003 OS, Rational ClearCase.
- Converted the K2K Kitting Designer (VB6 app that crashed a lot) to the Master Kitting Maintenance web-based interface that was adopted by the 777, 767, & 747 programs in Everett, WA, the 737 program in Renton, WA, and a smaller assembly plant in Fredrickson, WA (UI, Middle Tier, Backend, & re-engineered db); ASP.Net w/ C#, AJAX, SQL Server 2005, VS 2005, Erwin 4.1 database modeling, on Windows Server 2003. Re-developed the app to meet the end-users specific needs collaborating with SMEs from each of the programs.

Avanade Federal Services (FTE), *<u>System Engineer</u>* (5/10 – 4/11), Seattle WA   **2010-2011**
Microsoft Dynamics CRM On-site Installation Consultant
 ▪ Work with clients to determine and document infrastructure requirements for CRM 4.0/2011 deployment (SQL
   Server 2005/2008), and was the technical point of contact for CRM solution installation and troubleshooting.
 ▪ Created standardized documentation with concise instructions to ensure complete and successful deployments
 ▪ Developed custom C# desktop application for importing and exporting CRM system users – existing MS
   application did not support multiple user import.

The Boeing Company, (contract), *<u>Programmer Analyst</u>* (07/11 – 02/13), Everett, WA   **2011-2013**
Contracted to support the 787 eConfig Library Data Assembler (ELDA). Provided support for application build,
deployment and production data roll activities, and developed utilities (ETL) and ad hoc tools to support data
validation and deployment; C#, VS 2005/2010, SQL Server 2000/2005/2008, MS Access, MS Excel VBA macros,
Rational ClearCase, VMware. Awarded for significant contributions through the development of tools and process
improvements to reduce flow times leading to more efficient productivity and higher quality work.
A 6 month contract was extended 4 times for a total of 20 months, and an effort was made to hire into CE group.

NBBJ (contract), *<u>Programmer Analyst</u>* (06/13 – 02/14), Seattle, WA   **2013-2014**
Contracted for all new, in-house development initiatives. Developed a custom integration solution between Taleo
Business Edition and Deltek Vision using each products web services for data migration. Maintained legacy Classic
ASP web sites while re-architecting and re-writing to ASP.NET with C#.

Satori Software Inc. (contract), *<u>Project Developer</u>* (03/14 – 08/14), Seattle, WA   **2014**
Contracted to develop an automated system for sending and tracking email notifications for software releases and
service packs to the current customer base, integrated with Sales Logix CRM.
Developed complete customizable and extensible solution including relational database, all stored procedures, and all
coding of VB.NET UI and Windows Service. Primary tools: Visual Studio 2010, SQL Server 2008 R2, Visio 2010.

<u>The Boeing Company</u> (contract)*, <u>Programmer Analyst</u>* (08/14 – 12/17), Everett, WA   **2014-2017**
Contracted to support 777 Quality, Technology Integration. Developed database-driven, web-based, near real-time
quality metrics, and NCR Tracking; C#, VS 2013, SQL Server 2012, Teradata, Visio 2010 DB Model. Awarded for
fast development of online metrics that helped reduce Quality Inspection lost time by increasing inspection visibility –
also adopted by 767, 747, and 737 programs.
 ▪ Developed the web-based five step BPSM Project Tracking application (Boeing Problem Solving Model),
   including Definition, Root Cause and Gap analysis, Solution Validation, Implementation, and Sustaining activities.
An initial 6 month contract was extended several for a total of 41 months, and an effort was made to hire direct.

Applied Technical Services (FTE), *<u>Manufacturing Data Engineer</u>* (03/18 – 9/21), Everett, WA   **2018-2021**
SME for Aegis, FactoryLogix software, responsible for developing an Analytics tool for reporting, also tied to the
FourthShift ERP database. Developed numerous tools, maintained MS Access database applications, and converted
Excel worksheets to web-based report, and automated Excel file generation; C#, VS 2013/19, SQL Server 2014, Visio
2010 DB Model.
 ▪ Clear to Build – Excel spreadsheet and web-based reporting that displayed the weekly supply and demand of all
   parts to identify and prevent potential part shortages.
 ▪ RMA web-based app – re-engineered from a MS Access application.

Korry Electronics Co. (FTE), *<u>Senior IT Applications Specialist</u>* (10/21 – 11/21), Everett, WA   **2021**
Tasked with data cleanup of SyteLine ERP system. Created tools to traverse all database tables to define all points
of data update required to fix the many data issues (Customer Name, Program Name, Market Segment, etc.); C#, VS
2015, SQL Server 2017, Visio 2010 DB Model.

Arconic (FTE)*, <u>IT Systems Analyst</u>* (12/22 – 04/23), Davenport, IA   **2022-2023**
Tasked with upgrade to Delmia Quintiq Company Planner application, which included updates to application features,
and adding fields to Oracle and SQL Server database tables, and updates to Oracle views and stored procedure
packages, and SQL Server stored procedures and functions, to support data feed processing from multiple systems in
multiple locations; C#, VS 2019, SQL Server 2012/2017, T-SQL, SSIS, Oracle PL/SQL, Unix batch jobs, XML, JSON.

Personal web domain development   **2005-2023**
I have a fiber connection with a static IP, a HP DL380 server running 24x7, with VMware 6.5, 3 domain controllers,
and two web servers, hosting two web domains, one as a basic business web site for development and consulting,
and another for a game domain used as an exercise to transpose paper puzzles to dynamic web pages to help solve
them easily (no erasing) while continually enhancing my development skills: http://www.cryptoquotegame.com/