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## Work Experience

### General Motors Customer Care and Aftersales

2012-2019

*GM Customer Care and Aftersales, Grand Blanc, MI*

*Senior Enterprise Architect - Information Technology*

**In the position of Global Enterprise Architect, I created and maintained the IT Strategy for the Customer Service Sales and Parts division. I led the Architecture Review Board, in which I guided software development teams on solutions and ensured they support the strategic devops road map. Further, I ensured our 200+ systems were secure, scalable, and resilient. In this role I worked with multiple teams, project management, infrastructure, security assurance, development teams and business counterparts.**

#### Accomplishments:

- I personally architected the solution for several critical systems.
- Led the architecture review board.
- Utilized my deep business acumen and strong technical abilities to support a heavy and diverse workload.
- Developed and executed a solution to enable business continuity for over 100 applications.
- Mentored new senior IT employees and application architects.
- Evaluated new software (both open source and commercial) for inclusion in the standards catalog.

### General Motors Global Information Technology

2009-2012

*GM Technical Center, Warren, MI*

*IT Architect - Information Technology*

**In the position of Global IT Architect, I worked across various IT groups to design robust solutions utilizing diverse technologies. Further, I engineered global solutions that allowed GM to secure and modernize plant floor, service & parts systems.**

#### Accomplishments:

- Created solutions to insource several applications.
- Developed solutions and oversaw the migration of 200+ custom developed applications into a private cloud environment.
- Defined the short term and long-term IT roadmap for the organization.
- Viewed as an expert and often called upon to troubleshoot the toughest problems in areas of application performance and security.

### General Motors Global Manufacturing & Quality

2006-2009

*Pontiac Centerpoint Campus, Pontiac, MI*

*Software Development Manager - Information Technology*

**In the position of Global Software Development manager, I was responsible for managing both development and sustain efforts of web-based applications utilized by thousands of employees at over 200 General Motors (GM) facilities globally. I**

led teams of developers and project managers while simultaneously supporting the development of multiple releases and break/fix issues. I utilized multiple SDLC methods including waterfall, iterative and agile.

#### **Accomplishments :**

- Led the development of a software release which allowed for customer acceptance of a custom software application (releases prior to my involvement had been rejected by the customer).
- Demonstrated the ability to provide crucial leadership required for tough projects while working in a diverse and challenging environment
- Reduced the total number of known software defects by 98% (corrected all major issues).
- Led the migration from a custom coded application to a COTS solution. This led to increased user acceptance and lower support costs.

#### **General Motors Service and Parts Operations**

**2002-2006**

*SPO World Headquarters, Grand Blanc, MI*

*IT Manger - Information Systems & Services*

I worked in the function of Global IT Project and Application Sustain Manager in the Information Systems and Services (IS&S) department of GM Service and Parts Operations (SPO). I served as the IT engineering liaison for a global software development initiative for electronic control module programming. This position required me to manage multiple international multimillion-dollar projects that supported an enterprise-wide common architecture for delivering service programming to GM vehicles globally. After the initial deployment of the application, I acquired maintenance responsibilities for this application as well and managed the transition from warranty to maintenance for multiple releases.

Another main responsibility of mine was Team Leader and Web Master of the SPO divisional intranet site. This included leading a cross-functional team that was responsible for managing web site content for all departments within the SPO division of General Motors

#### **Accomplishments:**

- Managed IT development of a global service programming system. This activity consolidated multiple systems globally and reduced ongoing support costs by \$9,700,000.00 annually.
- Architected and managed offshore development effort of General Motors first fully ecommerce enabled website. The solution I designed utilized J2EE framework and multiple web services (XML messaging, shipping API's, payment processing API's, and many others. These efforts also satisfied EPA and CARB regulations that avoided penalties of up to \$25,000.00 per day.
- Reduced implementation times for content changes on intranet site from 5 business days to 1 business day.
- Architected a solution to consolidate multiple intranet sites. This resulted in a onetime savings of \$150,000.00 and an annual savings of \$30,000.00
- Architected the re-design of a corporate intranet site. This increased user acceptance and bolstered usage of the site by 800% daily.

- Provided annual technical (web application) support to the Buick Open Charity auction. Due to my involvement, fund raising increased from \$5000/year to \$40,000/year.

### **General Motors Truck Group**

*Pontiac Assembly Center, Pontiac, MI*

**1997-2002**

*Electrical Engineer - Plant Engineering*

**As an Electrical and Computer Systems Engineer in the Plant Engineering department, my responsibilities included Web Administrator for the entire facility, Administrator of NetCache server, administration of other Windows NT and UNIX based servers (prodoc, MASS, Network Appliance), programming, manipulating electrical schematics in AutoCad, and trouble shooting electronic controllers (PLC's). Along with my technical responsibilities, I also led the PEA common web users group project, as well as taught summer interns the basics of web site design, and have led or been a part of several other managed projects, such as the CMORE installation project and the water leak test project. In this position I acted as a liaison between the Plant Engineering Department and the EDS account. I resolved manufacturing issues by engaging resources from Engineering, EDS, outside suppliers, and GM UAW skilled trades, in order to sustain production.**

### **Accomplishments :**

- Led the installation of an assembly line throughput improvement system. This gained over 0.5 JPH which translated to a \$10,000,000.00 annual gain.
- Architected the electrical design and managed the installation of a water leak test system. This provided data that was used to reduce passenger compartment leaks and improved quality.
- Lead Y2K efforts for engineering-supported plant floor systems. As a result, there was no disruption to production.
- Architected, developed, and managed installation of a weather monitoring system that was used to avoid EPA retribution.
- Designed a web-based (digital imaging) solution to monitor and address assembly line issues.

### **Concepts in System Design**

*Tecumseh, MI*

**1995-1996**

*Technician - Installation*

**While working at Concepts in System Design, I installed and wired high-speed computer networks (LANs / WANs). My duties included termination and installation of CAT5 wiring, patch cords, patch panels, and closets. I was also responsible for toning, testing, and troubleshooting of the LANs.**

## Education

**Carnegie Mellon University**  
*Pittsburgh, PA*

**Masters of Science in Information Technology (August 2005) \*magna cum laude.**

**Michigan State University**  
*East Lansing, MI*

**Bachelor of Science in Electrical Engineering (May 1998).**

## Technical Experience

### Operating Systems

**Microsoft Windows DOS – Present Version** - I have followed a working progression with Microsoft operating systems from DOS 6.0 up to Windows 10 and NT Server – Server 2018. I am most familiar with Windows 2000 due to my daily activities working in that particular environment.

**UNIX** - I am familiar with both Solaris and HP UNIX. I have completed college level courses in each. I used Solaris in assignments for supporting applications such as DNS, Web Servers, and application servers.

**LINUX** - I have ten years of experience with the LINUX OS. I have installed and administered RedHat, Ubuntu, Oracle Linux and SuSe on multiple hardware platforms / Virtual Machines.

**Cloud Computing** – I have basic knowledge of the PCF (Pivotal Cloud Foundry) computing platform.

### Languages

**Java** - I have written small java applications, applets and servlets in previous positions. I have completed Sun Microsystems class SL – 275 and two collegiate level courses.

**Fortran, C, C++** - I have studied and programmed at the collegiate level.

**HTML, JavaScript, CGI, Perl, CSS, XML, JSON, ASP, SQL, Flash, PHP, Python** - I am self-taught through tutorials, printed media, the internet, and daily use in my multiple positions at General Motors. I have been building websites for over 20 years.

**Allen Bradley Ladder Logic** - I have created, edited, and debugged Allen Bradley Ladder Logic in my position at Pontiac Assembly Center in Plant

Engineering. Additionally, I am familiar with Allen Bradley's suite of Plant Floor system software (Rslogix, RSLinx, AB6200, etc...).

**GE Fanuc Cimplicity** – I created, edited, and supported GE Fanuc Cimplicity monitoring and control screens in my position at Pontiac Assembly Center in Plant Engineering.

**IBM Cognos** – I have used Cognos 8 – 10 in a user and administrative role for 5 years.

#### Web / Application Servers

**Apache Web Server (Linux and Win32 releases), Tom Cat, Netscape Enterprise Server, Sun One / Java One Web Server, BEA / Oracle Weblogic-** I installed and maintained these servers for up to eight years.

#### Database Servers

**Oracle, MS SQL, and MySQL** – While not a DBA, I have installed and maintained these servers for up to eight years.

#### Content Creation and Management Systems

**Drupal, Joomla, Microsoft SharePoint, Adobe Dreamweaver, Adobe Photoshop, GIMP** – I have used these tools to maintain intranet and personal websites (some form of these for over 20+ years).

#### Network Hardware and Software

**DNS, s/FTP, TELNET, SSH, email/SMTP servers, LDAP, SAML, Oauth2, SAN, NAS, F5 Load Balancers, various Firewalls, F5 ASM (WAF), Akamai CDN, Akamai Kona (WAF), various Identity and Access Management methods**– I have used these tools to maintain intranet, corporate and personal websites (some of these for over 20+ years) and have received professional certification on the Akamai suite of tools.

#### IoT

**Door sensors, temperature sensors, power and light switches, smart home automation, Raspberry Pi, Arduino, wearables, Z-wave** – I personally enjoy learning new technology. I have spent my free time modifying device handlers, writing micro services and tinkering with electronics including the items listed above.