# Greg Edwards

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## OBJECTIVE

Principle Software Engineer with extensive experience designing and developing highly efficient solutions for Linux based platforms.  Seeking full time remote position in a non managerial role with an opportunity to make a significant contribution to the long term success of the organization.

## SUMMARY

Over 35 years of experience in Software Engineering, Management, Design and Development.  Hands-on experience in all phases of the product and project life cycle from conception to development, deployment and ongoing support.  Detail oriented self starter with a proven track record of multitasking and managing overlapping roles and concurrent initiatives.

Technical experiences span a wide variety of industries and computing environments.  Managed, designed and developed solutions for Professional Audio Equipment, Telecommunications, Internet, Data Communications Equipment, Interactive Voice Response, Retail, Airline, Hospitality and Oil and Gas industries.  Hands-on experience designing and developing Client/Server, Internet, SOA, N-Tiered, Distributed, Real-Time, Firmware and Applications.

## TECH STACK HIGHLIGHTS

| | | |
|---|---|---|
| ● Linux - 21 yrs | ● UNIX - 15 yrs | ● C - 28 yrs |
| ● bash/ksh/csh/sh - 18 yrs | ● SQL/Pro*C/ESQL - 27 yrs | ● git/CVS/SVN/ClearCase - 24 yrs |
| ● Client/Server - 16 yrs | ● Distributed - 18 yrs | ● Firmware - 9 yrs |
| ● RDBMS - 27 yrs | ● SDLC - 25 yrs | ● Agile - 11 yrs |

## MAJOR ACCOMPLISHMENTS

Architect, designer and developer for a platform solution for the delivery of command and control messages in the next generation Professional Audio Equipment.  The solution implemented a custom high speed message passing core library, IPC and service daemons to bridge CNC data between multi-tasked application layer software and endpoint firmware.

Architect, designer and developer for a proprietary distributed server farm management system.  System manages ready pool processes distributed across a server farm utilizing a CORBA transport layer resulting in a dynamic load balancing SOA paradigm.  Resource needs are requested at the functional level allowing multiple entry point exposures from service processes.

Designed and developed a proprietary embedded POSIX complaint Real Time Operating System kernel for a Special Services Test Equipment line of products.  Led requirements gathering, needs analysis, design, planning, scheduling, change management, test and release control strategies.

Architect, designer and developer of a custom ETL solution capable of processing over 1,400 diversely formatted Point of Sale daily audit files in less than 45 minutes.  System included audit file delivery monitor and multi-tiered load balanced solution utilizing dynamically mapped parser directives.  Developed Project Plan, Scope Definition, Design Specifications and technical documentation.

## EDUCATION

Bachelor of Science, Computer Science
      California State University Stanislaus, Turlock, CA

## KEY SKILLS

**Platforms**: Linux, Embedded Linux, Solaris/SunOS, HP-UX, AT&T System V, FreeBSD, AiX, Xenix, RTOS

**Programming**: C, C++, PHP, Tcl/Tk, Assembler, Lisp, Fortran, Python, Perl, CGI, Shell, SQL, Pro*C, ESQL, XHTML, CSS, CodeIgniter

**Databases**: MySQL, Oracle, Informix, Sybase, SQLite

**Environments**: Client/Server, Distributed Computing, Service Oriented Architecture, N-Tiered Architecture, Web Application, Real-Time, Embedded, Virtual Simulation, Interactive Voice Response, System Configuration Management

**Protocols**: TCP/IP, CORBA, RPC, IPC, JSON, HDLC, X.25, ISDN, TL1, RS232, HTTP, Kermit

**Other**: SDLC, Agile, Iterative, Waterfall, Project Lifecycle Management, Open Source, CDE, git, SCCS, CVS, Subversion, yocto, ClearQuest, RCS, MS Office, OpenOffice, Confluence, Jira, Lotus Symphony, Lotus Notes, ClearCase, Rational Team Concert, Rally, Redmine, MS Project, Wiki, Visio

## EXPERIENCE

### Jun 2018 - Present:  Harman International, Richardson, TX - Principle Engineer

Research, conceptualization, architecture, design and development of next generation platforms for embedded Linux Professional Audio equipment.  Responsible for the design and development of a solution for high speed command and control message passing on an NXP i.mx8mm processor utilizing a custom embedded Linux distribution.  The design incorporates a system daemon service, named pipes IPC and rpmsg package to communicate with M4 micro controller connected to up to 34 endpoints including DSPs, VoiP and FPGA.  The service supports single threaded, multi-threaded and muti-tasked application layer designs.  The solution is fully scalable and load balanced without significant degradation of throughput from 1 to 34 endpoints.  *Primary Technologies: Embedded Linux, C/C++, yocto, git, NXP i.MX8MM, ADSP21569, SPI, Agile, Confluence, Jira, Remote Development*

### Jan 2016 - Mar 2018:  Southwest Airlines, Dallas, TX - Sr Software Engineer - Consultant

Developed new features and application enhancements for Southwest's Flight Planning application.  System and problem analysis for application and server side system maintenance.  The Flight Planning application is written in C and Motif, integrated with Sybase and runs on a Linux platform.  The application runs as a workstation application in a client/server environment utilizing services for back office operations and third party systems access.  The application utilizes a callback point and click architecture.  Responsible for the design and development of several revisions targeting performance enhancements resulting in greatly increased user productivity and an improved user experience. *Primary Technologies: Linux, C, Sybase, Motif, Agile, Jira, Remote Development*

### May 2014 - Dec 2015:  HyperCube, Lancaster, TX - Sr Software Engineer - Consultant

Designed and developed a web based Enterprise Customer product pricing management system.  Responsible for full life cycle project management, business analysis, system design and implementation working independently as a single developer project.  The system stores price data developed by marketing and sales groups customized to individual customers in what is termed a Rate Deck file.  The price data is extracted from a csv file and stored in the system along with its effective time frame.  The stored data is distributed to customers as attached files in the original uploaded format via an automated price change email notification.  The pricing data is available to company personnel through the web based GUI and web service APIs in both the original format and as a raw data stream. *Primary Technologies: Linux, PHP, CodeIgniter, HTML 5, CSS 3, JSON, MySQL, Iterative SDLC*

### July 2013 - May 2014:  GS Five, Inc, Coppell, TX - System Architect, Sr Software Engineer

Architect, designer and developer for a load balancing distributed process management system supporting a Service Oriented Architecture model.  The system manages a dynamic server farm

providing service registration at the functional level. The system design incorporates ready pools of processes exposing multiple function level services utilizing CORBA to provide an RPC client/server agent. Shared libraries, IPC and shared memory provide a highly efficient extremely scalable distributed multitasking environment for high volume web based applications. *Primary Technologies: Linux, C, IPC, HTML 5, CSS 3, MySQL, CORBA, Apache*

**May 2013 - Dec 2013: Yahoo, Richardson, TX - Sr Software Engineer - Consultant**

Member of a development team responsible for proprietary data center configuration and management tools. Enterprise Critical tool sets utilizing Web-API and SOA design paradigms in a LAMP stack. *Primary Technologies: Linux, PHP, Perl, MySQL, Open Source, Rally, Twiki, Agile SDLC*

**Jan 2013 - Mar 2013: HBS Systems, Richardson, TX - Lead Software Developer - Consultant**

Led Executive Management initiative to implement a Project Management process for the Software Development team. *Primary Technologies: Redmine, MS Office, Iterative SDLC*

**May 2011 - Jan 2013: AT&T, Richardson, TX - Sr Software Engineer - Consultant**

Member of a team responsible for a proprietary custom ETL system. Designed and developed system tools encapsulating Oracle and Flat File format standards for extraction and load processing. Designed and developed a Dynamic SQL API which moved Pro*C code development out of the application layer greatly reducing the complexity and development time for new application software. *Primary Technologies: HP-UX, C, SQL, Pro*C, KSH, RCS, Oracle, MS Office*

**Nov 2010 - May 2011: MetroPCS, Richardson, TX - Sr Software Engineer - Consultant**

End to end design and development of Enterprise Application Integration (EAI) solutions in an Enterprise Critical distributed processing environment. *Primary Technologies: Linux, FreeBSD, C, SQL, Open Source, Spread, Subversion, Oracle, SQLite*

**Nov 2004 - Oct 2006: Accor NA, Carrollton, TX - Sr Software Engineer - Consultant**

Directed, managed, designed and developed custom ETL solution for an Enterprise Critical automated Point of Sale data collection system. Developed Project Plan, Scope Definition, Design Specifications and technical documentation. Coordinated data migration, production release integration, and deployment strategies with Oracle Developers, DBAs and System Administrators. Assisted Executive and Senior Management in strategic planning, staffing requirements and hiring. *Primary Technologies: Solaris, C, csh, Pro*C, SQL, PL/SQL, Oracle, MS Office, Waterfall SDLC*

**Jan 1987 - Nov 2010: Various, DFW/Austin, TX - Sr Software Engineer - Consultant**