**David A. Roberts**

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**OBJECTIVE**

Seeking a software engineer position in healthcare information technology where a combination of system analysis, architecture, design, development, and maintenance are required.

**SUMMARY/TECHNICAL SKILLS**

Excellent communication skills in English and Spanish.

*Microsoft technologies*: Visual [Team] Studio .NET, 2003-2010, C#, C++, VB.NET, LINQ, J#, JavaScript, AJAX, .NET 1.1-4.0, Web Forms, MVC, WCF, WCF REST, WF, Enterprise Software Factory; SQL Server 2000-2008, T-SQL, Reporting Services; Windows XP, Vista, 7; Windows Enterprise Server 2003, 2008 (32- and 64-bit), Active Directory, IIS 6.0-7.5; Team Foundation Server, Office 2003-2010; .NET Micro Framework.

*Other technologies:* Oracle, jQuery, Subversion, TortoiseSVN*,* NHIN, CONNECT, Java Platform, NetBeans IDE, GlassFish Application Server, Metro web service stack, Apache Ant, MySQL, Teradata, Novell, VMware, UNIX, Linux; Ubuntu; SUN Solaris; C/C++; Pascal; FORTRAN; Basic; LISP; Continuous Integration CruiseControl, TeamCity, Red-Gate SQL/Oracle Toolbox; HP OpenView; AutoCAD; OR-CAD; Microcontrollers: Arduino, ARM, Basic Stamp, Silicon Labs 8051.

**WORK HISTORY**

**Pride Technologies May 2011 – Present**

**10260 Alliance Road, Suite 120, Cincinnati, OH 45242**

**[Contractor at Standard Register Company, 600 Albany Street, Dayton, OH 45417]**

* Software Engineer designing, developing, and maintaining a web user application to configure, order, distribute, and track printed media and documents. Design involved database, web services, and GUI to fulfill existing application requirements and interfacing with existing enterprise level services.

**Wright State University January 2003 – April 2011**

**Boonshoft School of Medicine, Center for Healthy Communities, 3640 Colonel Glenn Hwy, Dayton, OH 45435**

* Founding Developer, Lead System Architect and Integrator for the Health Information Exchange (HIEx™) System, a Health Insurance Portability and Accountability Act (HIPAA) complaint central data repository of demographic, social and health data of individuals organized in households. Named as one of the original owners of the Trademark for this software product.
* Lead program development efforts for HIEx™ from all areas, including Graphical User Interface (GUI) and Web Services; database schema, stored procedures, and administrative scripts; Web Portal administration, client application configuration and integration.
* Mentor/train junior developers and interns within the organization, providing insight into the HIEx™ System and the impact of NHIN standards in the healthcare interoperability arena.
* Design, develop, integrate, maintain, and manage the HIEx™ information system in a client/server and web environments facilitating the exchange of information across multiple platforms and provider sites.
* Lead WSU’s technical team through successful completion of health information exchange project with the Social Security Administration (SSA) which includes end-to-end interoperability between SSA’s MEGAHIT environment, WSU’s Nationwide Health Information Network (NHIN) Gateway, and third-party Electronic Health Record (EHR) systems.
* Represent WSU in the Standards and Interoperability (S&I) framework directed by the Office of the National Coordinator (ONC) to harmonize existing standards and improve sharing of standards across different organizations and federal agencies.
* Represent WSU in the NHIN as a member of the Specifications Factory Work Group in the following sub-teams: Information Services, Messaging Platform, Profile Development, Security and Privacy; and Testing Work Group.
* Represent WSU in the Health Information Technology Standards Panel (HITSP) in the Data Architecture and Clinical Research Tiger Teams.
* Represent WSU in the American Society for Testing and Materials (ASTM) International as member of the Committee E31 on Healthcare Informatics.
* Provide briefings and clarification meetings to senior representatives and technical contacts of partner agencies to ensure potential or planned programs support partner Health Information Exchange (HIE) requirements.
* Facilitate work with partners for requirements and configuration development for HIE, including any unique or custom data transformations for integration with the HIEx™ System and/or NHIN standards.
* Participate in the writing and evaluation of technical inputs for grant applications, contract proposals, and performance reports to support all programs at the Center for Healthy Communities (CHC).

**T. Rasa Design, Inc., August 1998 to 2002**

**2775 Observatory Ave, Cincinnati, OH 45208**

* Participated in the design and development of web applications; designed and implemented key components of the web based "Plantain™ Asset Management Application".
* Customized and developed the web based Plantain™ system based on the requirements from clients. Clients included equipment manufacturers and re-sellers in areas such as Agri-Business, Material Handling, Construction, etc.
* Searched and evaluated third-party web components and utilities for projects.
* Designed and implemented database objects for web application in SQL Server 7.0/2000 including tables, triggers, indexes, and stored procedures.
* Proactively troubleshot and debugged application and support platform issues such as "DLL Hell" and memory leaks in order to improve system performance.
* Performed administrator IT functions for the small business environment and production host servers of database and web applications: maintenance plans, security configuration, deployment, updates, backups, etc.
* Recognized as the Subject Matter Expert for IT and Network related topics.
* Planned, organized, and coordinated activities for network-wide configuration management, maintenance, test, security, and logistics.

**EDUCATION**

**Wright State University,** Dayton, OH

Enrolled as non-degree graduate student; courses included subjects in Computer Science, Computer Engineering, and Human Factors Engineering. 2003 to 2007.

**I.U.P.F.A.N. [National Armed Forces Polytechnic University Institute],** Maracay, Venezuela

Degree Completed: BSEE, focus on Electronic Communications, July 1995

**Other**

On-going, maintain currency with healthcare information technology, information exchange interoperability, and software development tools, best practices, and technology toolbox in general.

**Specialized Training**

Operating Systems: Windows® Server 2003, 2008; Windows® XP, Vista, 7; Unix; Linux; Ubuntu; Palm OS

Database Systems: SQL Server 2000, 2005, 2008; MySQL; Oracle; Teradata

Development Platforms: Visual Studio 2003, 2005, 2008, 2010; Satellite Forms,

Other: IIS, SBS, VBScript, JavaScript, Visual Basic, T-SQL, and Office Automation.

**Professional Organizations and Committees**

Healthcare Information and Management Systems Society (HIMSS)

Microsoft® Healthcare Users Group (MSHUG)

Institute of Electrical and Electronics Engineers (I.E.E.E.)

American Society for Testing and Materials (ASTM), Committee on Electronic Health Records (ASTM E-31)

Dayton .NET Developers Group

CONNECT Users Group