

## RONALD N. LARSON

US Citizen

Security Clearance (Inactive)

### SUMMARY

An Information Technology professional with 17+ years of experience seeking a permanent or contract position leading IT staff in systems design and development with an emphasis on the Software Engineering process.

### EXPERIENCE

2007 - Present

#### **CORNERSTONE SOFTWARE SERVICES, INC.** Tallahassee, FL

*Information Technology Consultant, Florida Department of Agriculture and Consumer Services*

- \* Troubleshoot, update, and document an unfinished enterprise reporting application for the National Poultry Improvement Plan (NPIP) initiative, spearheaded by the FDACS Division of Animal Industry, using ASP.NET 2.0, Visual C#, Oracle 10g Release 2, and GeoCoding web service calls. Create ad-hoc reports as required by exporting Oracle 10g application databases and importing into Microsoft Access.
- \* Develop an enterprise reporting application to support the Fresh from Florida Kids initiative from the FDACS Division of Marketing, which will support Healthy Start Coalitions located in five metropolitan areas throughout Florida. Security is employed using an Oracle-based membership provider. Front-end is in ASP.NET 2.0 using master pages and CSS-based dynamic web templates, VB.NET, and an Oracle 10g Release 2 backend. Ensured compliance to FDACS Section 508 policies.

Skills Applied: ASP.NET 2.0, Visual C#, Visual Basic.NET, ADO.NET, Oracle Developer Tools for .NET, Oracle SQL Developer, GeoCoding web service, CSS, HTML, PL/SQL, Visual Studio 2005, Visio 2003/2007, UML, Microsoft Access 2003, Object-Oriented Design and Analysis, Project Management, Technical Writing

2006 - 2007

#### **ALLTECH CONSULTING INC.** Tallahassee, FL

*Information Technology Consultant, Office of Information Systems, Florida Department of Transportation*

- \* Served on the Business Support Systems Office (BSSO) Enterprise Library team. Provided feedback to primary framework developers. Created MSI-based installers in Visual C# using the Windows Installer API, the Microsoft ORCA tool and Visual Studio 2005. Provided code review support, input/feedback to Web and Technical Standards revisions/updates, and general .NET development support to BSSO project teams as required.
- \* Served as the .NET technical lead for the Professional Services Information System (PSI) Rewrite enterprise application project for the Professional Services Office. Provided preliminary analysis, design documentation, and detailed subsystem-level design specifications using UML 2.0. Reviewed coding specifications, provided project work breakdown structure and milestones, and staffing recommendations.
- \* Served as lead developer for the Office Closure System (OCS) project for the FDOT Office of Comptroller, which provides audit data to the Personnel Payroll System. OCS utilized ASP.NET 1.1, VB.NET, and COM component interfaces to DB2 tables via an Advantage:Gen 6.5 backend. Ensured compliance to FDOT Section 508 policies.
- \* Provided .NET development level-of-effort estimation metrics to support Project Aspire requirements. Metrics were broken by development activity types and based on software engineering guidelines.
- \* Worked on the Notes-to-Microsoft migration team. Provided requirements analysis and documentation for client/Microsoft partner collaboration. Researched the applicability of Windows Workflow Foundation (WF) development versus Windows SharePoint Services 3.0/Microsoft Office SharePoint Server 2007 based solutions.
- \* Served as a technical resource for the Traffic Control Products (TCP) project for the FDOT Traffic Engineering and Operations Office, using ASP.NET 1.1, VB.NET, and Oracle 9.2i.
- \* Served on the Tech Connect Planning Committee. Briefed client on the applicability of .NET Framework 3.0 components via PowerPoint presentations.

Awards: Certificate of Appreciation-Outstanding Service Team Member, FDOT Office of Information Systems (January 2007); Certificate of Appreciation-Tech Connect, FDOT Business Support Systems Office (January 2007)

Skills Applied: ASP.NET (1.1/ 2.0), Visual Basic.NET, Visual C#, Windows Workflow Foundation, ADO.NET, HTML, PL/SQL, T-SQL, Oracle 9.2i, DB2, SQL Server 2005, Visual Studio 2005 Team Edition for Software Developers, Visual Studio .NET 2003 for Enterprise Architects, UML 2.0, Object-Oriented Design and Analysis, Project Management, Technical Writing

Professional Development: CIS5357 Network Security: Active & Passive Defenses (FSU Department of Computer Science)

2004 - 2006

#### **FLORIDA STATE UNIVERSITY** Tallahassee, FL

*Research Associate – Information Technology Manager/Lead Developer, Center for Educational Research and Policy Studies, College of Education*

- \* Designed, developed and maintained web-based reporting applications in ASP.NET and Visual C# for the Bureau of School Improvement, Florida Department of Education. Applications interfaced with Microsoft SQL Server 2000 databases using ADO.NET and stored procedures.

- \* Led and managed the Information Technology Group at the FSU School Improvement Policy Center. Responsibilities included: development of annual technology plans, milestone scheduling and budget recommendations for multiple projects, act as primary Information Technology contact for the Bureau of School Improvement, generate reports for the Deputy Chancellor and Bureau Chief, and provide directions/assistance to team members as necessary. Projects included planning and deployment of next iteration of web-based reporting applications, migration of reporting applications from Lotus Domino to a Microsoft-based solution, office-wide email migration from Lotus Notes/Domino 6.5 to Microsoft Exchange Server 2003, update/redesign of the Bureau website, and migration from Windows 2000 to a Windows 2003 Server-based network.

Awards: K-12 Employee of the Month (August 2006), Florida Department of Education Division of K-12 Public Schools

Skills Applied: ASP.NET 1.1/2.0, Visual C#, Visual Basic.NET, ADO.NET, HTML, JavaScript, T-SQL, SQL Server 2000/2005, Visual Studio .NET 2003 for Enterprise Architects, Microsoft Office 2003, IIS (5.x, 6.0), Adobe Photoshop CS2, Windows (XP, Server 2003) , Object-Oriented Design and Analysis, Project Management, Technical Writing

Professional Development: Certificate in Professional Writing (FSU Center for Professional Development); MS-2389B: Programming with Microsoft ADO.NET; MS-2524C: Developing XML Web Services using Microsoft ASP.NET; Supporting, Troubleshooting and Optimizing Windows Server 2003 (CompuMaster)

Summer 2006

*Instructor, Office of Science Teaching Activities, Department of Biological Sciences, College of Arts and Sciences*

- \* Taught the "Introduction to Computer Programming Using C++" course for the 2006 Young Scholars Program. Course coverage included: an introduction to C++ syntax and semantics; structured programming concepts, such control statements, functions and recursion, simple data structures, file input/output; object-oriented fundamentals such as classes, data members and member functions; basic software design methods such as pseudo code, flowcharting and Unified Modeling Language (UML) 2.0 fundamentals; and software engineering principles and best-practices. The course utilized Microsoft Visual C++ 2005 Express Edition.
- \* Developed lecture material, assignments, projects, examinations and course website. Performed evaluation of student performance and provided feedback to YSP program staff.

Skills Applied: C++, Object-Oriented programming/design/analysis, UML 2.0, Microsoft PowerPoint, Technical Writing

Awards: Letter of Commendation (July 2006), FSU Office of Science Teaching Activities

2001 - 2003

**HUMMINGBIRD USA INC.** Tallahassee, FL

*Senior Software Engineer*

- \* Prototyped a toolkit/API for use by third party developers and integrators while working on the DMO research and development team. Designed and developed the forms rendering engine for the Raven Windows client API using the Windows Forms library using Visual C#. Form files were specified in XML.
- \* Investigated and resolved customer issues while on the Fusion Hot-site team. Process included duplicating issues as documented in software change requests, stepping through product source code using the Microsoft Visual C++ 6.0 and Borland C++ 5.01 debuggers, modifying/updating source along with necessary testing and verification. Set up, queried and maintained product databases using SQL Server 7/2000 and Sybase 12.5 as required. Updated software change request database and dispatched coded fixes using Clarify 9.01 Web client.
- \* Conducted investigative studies, such as the feasibility of pre-release upgrade procedures. Reviewed end-user and technical documentation; created technical reports for upper management.

Skills Applied: Visual C#, Visual C++ 6.0, Borland C++ 5.01, .NET, Component Object Model (COM), Active Template Library (ATL), SQL Server (7.0, 2000), Sybase 12.5, XML, Visual Studio .NET (2002, 2003), Visual Studio 6.0, Visual SourceSafe, Clarify 9, Hummingbird DM 5.0, DOCS Fusion 4.0, DOCS Open API, Windows 2000 (Professional/Advanced Server), Object-Oriented Design and Analysis, Project Management, Technical Writing

Professional Development: DOCS Open Professional, DOCS API Development

1999 - 2001

**DATAMAXX APPLIED TECHNOLOGIES, INC.** Tallahassee, FL

*Senior Software Engineer*

- \* Designed and developed applications in Visual C++ 6.0 as required for various agencies and other clientele in the law enforcement industry. Applications were geared towards the wireless networking and web-based, e-Commerce fields. Assigned as lead developer for the Mobile Controller and Mobile Client products (MDCC-2020/MDC-2020). Products used instances of Component Object Model (COM) and Microsoft Foundation Classes (MFC) objects, message queuing, and Windows Socket APIs.
- \* Designed, reviewed and updated product overviews, user and system manuals, product interface specifications and other technical documentation as necessary.
- \* Supported pilot projects that investigated deployment of the CyberForce interactive pager product in Florida and New York. Tasks included providing message parsing routines to process query responses for the Florida

Department of Law Enforcement and enhancing the Device Manager component of the CyberForce Server application.

Skills Applied: Visual C++ 6.0, Microsoft Foundation Classes (MFC), COM, message queuing, Windows Socket API, wireless device protocols, TCP/IP, Visual Studio 6.0, Visual SourceSafe, Windows 2000

(Professional/Server), Object-Oriented Design and Analysis, Project Management, Technical Writing

Professional Development: TCP/IP Driver Debugging and Troubleshooting; Mobile Controller and Client Deployment

1997 - 1999

**SUPERIOR TECHNICAL RESOURCES, INC.** (formerly Superior Design Co. Inc) Palm Bay, FL  
*Senior Software Engineer (Contractor), Northrop Grumman Corp. -- Integrated Systems and Aerostructures Sector*

\* Served as a Computer Software Component (CSC) team lead. Maintained and improved the functionality of other software components. Full life cycle participation was required. Department of Defense security clearance.

\* Prototyped and developed Mil-Std-1553 and GPS clockcard utilities.

\* Assisted software development personnel in troubleshooting, debugging, and updating software tools.

\* Developed a command procedure utility for the Transportable Mission Support Subsystem/Computer Logistics Support (TMSS/CLS), reducing turnaround time by 85 percent.

\* Conducted requirements analysis studies to address Defense Information Systems Agency (DISA) requirements.

\* Participated in corporate audits for ISO-9002, SEI/CMM Level 4 Software certification and SEI/CMM Level 3 Systems Engineering certification.

Skills Applied: Visual C++ (5.0), Microsoft Foundation Classes (MFC), VAX DCL, CMS (Windows NT and VMS), Rapid Application Development, Object-oriented Design and Analysis, Full Life Cycle Development, Visio 5.0, Microsoft Office 95, Windows NT 4.0 (Intel, DEC Alpha), VAX/VMS, Mil-Std-1553, ISO-9002, SEI/CMM Level 4 (Software), SEI/CMM Level 3 (Systems Engineering), Project Management, Technical Writing

Professional Development: Ada95 Programming and Software Development; C++ Programming and Software Development; Windows NT Device Driver Development; Introduction to Airborne Radar

1995 - 1996

*Senior Software Engineer (Contractor), Harris Transcomm Division*

\* Designed and developed network management applications for the Standard Terminal Automation Replacement System (STARS) project proposal. Object-oriented design (OOD) techniques and full life cycle participation in a small team environment was required. Customers were the Federal Aviation Administration (FAA) and the US Department of Defense (DoD).

\* Conducted research and designed prototype applications to implement the Desktop Management Interface (DMI) specification into hierarchical network management monitor and control functions.

\* Served as system administrator for testbed systems running HP-UX (9.x and 10.x), Solaris x86 (2.5x) and QNX.

Skills Applied: C/C++, SNMP, TCP/IP, UNCL, DMI, Object-Oriented Design and Analysis, Full Life Cycle Development, UNIX Shell Scripting, UNIX System Administration, RCS/SCCS, HP-UX (9.x, 10.x), Solaris x86 (2.5x), QNX, Windows NT 3.5x, Mil-Std-498, Project Management, Technical Writing

Professional Development: Executive Time Management

1993 - 1995

*Senior Software Engineer (Contractor), Harris Air Traffic Control Systems Division*

\* Designed and developed software tools for use by the software development department and other corporate users.

\* Served as frontline software development interface and support to all testbed labs for the Voice Switching and Control System (VSCS) project for the FAA. Served as system administrator for production testbed systems.

\* Acted as the liaison between the Federal Systems Software, Production/Manufacturing, and System Test & Integration groups.

Skills Applied: C, TACL, Cadre Teamwork, Guardian 90 (Tandem CLX-based), DOS, Windows for Workgroups 3.1x, DoD-Std-2167/2167A, Project Management, Technical Writing

1996 - 1997

**TECH/AID** Longwood, FL

*Network Mgt. Monitor and Control Software Engineer (Contractor), Engineering & Technical Services, Inc.*

\* Designed and developed serial device drivers in C for application in satellite communications protocols. Customers included Echostar Satellite Corporation (Cheyenne, WY) and Marconi Telecomunicações Internacionais in Europe (Sintra, Portugal).

\* Designed and developed the graphical user interface (GUI) for the monitor and control system, providing individual device and overall system status using the AccessPoint suite (4.x/5.x) from AccessWare.

\* Provided on-site field support as needed. Modified existing customer systems as required. Implemented new phases of operational monitor and control systems. Troubleshot and corrected hardware issues on-site as needed. Provided field support to the Echostar Satellite Corporation Uplink Center in Cheyenne, WY.

Skills Applied: C, Serial device driver development (RS-232, RS-422/485), Monitor and Control GUI development (AccessWare 4.x, 5.x), Hardware troubleshooting (satellite firmware and computer network related), SCO UNIX 3.x, Sparc Solaris 5.5x, Project Management, Technical Writing

Professional Development: Serial Device Driver Development in C; Monitor and Control Interface Development with AccessWare

**BREVARD COMMUNITY COLLEGE** Cocoa, FL

1991 - 1993

*Data Control Specialist*

\* Generated programs and analyzed reports for state, federal and Institutional Research requirements.

\* Developed/modified applications customized to user specifications.

\* Provided on-line/on-site technical support.

Skills Applied: XBase (dBase III+/IV), FOCUS, VAX DCL, SAS, SPSS, COBOL, CMS, Lotus 1-2-3, Microsoft Office, VMS, DOS, Windows (Workgroups, NT 3.1), OS/2 2.0, Technical Writing

**LOCKHEED SPACE OPERATIONS COMPANY** Kennedy Space Center, FL

1992 - 1993

*Special Project Developer* (Senior Design Project for UCF College of Engineering)

\* Developed a standard report generator application for the Resources Administration department. Relational database techniques and object-oriented programming were employed to allow output device specification, network printer redirection, and on-line database maintenance. Full life cycle participation was required.

\* Generated customer-required documentation (User Manual and Technical Reference Manual).

Skills Applied: XBase (Clipper 5.0), Full life cycle development, Systems Analysis and Design, Technical Writing

**IBM PHILIPPINES, INC.** Makati, Metro Manila, Philippines

1989 - 1990

*Coordinator – Information Center, Finance Division*

\* Supervised the transition of the Finance Division from dumb terminals to individual PS/2 systems connected to a token-ring PC3270 LAN. Conducted hardware systems installation, configuration and troubleshooting.

\* Trained and supervised entry-level employees in software utilization and system operation on DOS, Windows 3.0, and OS/2 1.x based PS/2 systems.

\* Assisted the Marketing department in presentation development for prospective clients.

Skills Applied: Hardware troubleshooting, PC3270 LAN configuration, OS/2 1.x, Harvard Graphics, IBM DisplayWrite, Technical Writing

**EDUCATION**

**FLORIDA STATE UNIVERSITY** Tallahassee, FL

*Master of Science, Computer Science, Overall GPA: 3.44/4.0*

Honors: Upsilon Pi Epsilon Honor Society in the Computing Sciences, Golden Key International Honour Society, American Scholars National Honor Society

Activities: Association for Computing Machinery (ACM); ACM Special Interest Groups – Artificial Intelligence, Computer-Human Interaction, Operating Systems, Management of Data

**UNIVERSITY OF CENTRAL FLORIDA** Orlando, FL

*Bachelor of Science in Engineering Technology, Information Systems Engineering Technology*

Major GPA: 3.95/4.0, Overall GPA: 3.30/4.0

Honors: President's Honor Roll, Dean's List

Activities: Vice-president, American Society of Engineering Technology – Brevard Chapter; Institute of Electrical and Electronics Engineers (IEEE); IEEE Computer Society; IEEE Engineering Management Society

**BREVARD COMMUNITY COLLEGE** Cocoa, FL

*Associate of Arts, General Education*

Honors: Dean's List, Nominated to Phi Theta Kappa Honor Society

**UNITED STATES MILITARY ACADEMY** West Point, NY

*Systems Engineering*

**DE LA SALLE UNIVERSITY-MANILA** Manila, Philippines

*Computer Science, Specialization in Computer Technology*

**REFERENCES**

Available upon request