Varol Okan

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TECHNICAL MANAGER

SUMMARY

A highly motivated and goal-oriented Technical Manager with a wide area of expertise including:

- Proven ability to handle multiple complex assignments concurrently.
- Work in close cooperation with Software Engineers, Systems Engineers, Project Management and Product Management to achieve the requirements on time and with high code quality.
- Manage day to day activities of our engineering team.
- Set and track goals in cooperation with all involved parties and handle reviews with the engineers.
- Demonstrated ability to provide solid solutions for operational requirements.
- Leading force for the analysis, design and delivery of future enhancements to existing systems.
- Installation and maintenance of complex hardware and software environments.

WORK EXPERIENCE

iDirect Network Management System, Herndon, VA   **Jun 2011-Current**
Technical Manager

Manage and lead a team of eleven full-time software engineers to build the next generation, highly scalable, web based, network management system.

I work in close cooperation with our development team in Cranfield, UK and ensure that design and implementation of the NMS meets all system requirements. Improve communications flow and interactions across departments.

Having established a semi-agile development environment, our team was able to achieve the set goals on time. This also allowed us to lower the overall project risk by identifying issues early on in the development cycle.

Manage the hardware and software requirements for our teams infrastructure needs. Engaged all involved parties across departments and on all levels to lead the integration effort, for the overall inter-component integration, to a successful delivery to systems test.

iDirect Network Management System, Herndon, VA   **Jul 2005-Jun 2011**
Senior Software Engineer

- Designed and implemented large scale multi-threaded server / client applications.
- Working in C++ with pthreads, WinThreads, MFC.
- Code base in excess of 2 million lines of code
- Implementing new features and maintaining existing code base.
- Responsible for the client and server side implementation of DVBS2 into the NMS.
- Worked on and enhanced the ATDMA, and GQoS features of the NMS.
- Technical lead for the 2.0 release of iDirect's Software product.
- Responsible for SNMP server enhancements and bug fixes.
- Working on scalability improvements through redesign and threading support of the existing code base.

INTELSAT Satellite Management System, Washington, DC   **Jul 2004-Dec 2004**
Senior I&T Systems Engineer

- Installed and tested the Ground Network System (GNS) in the Mini Control Center (MCC).
- Supported all major components in the MCC.
- Converted Java GUIs from the HP environment to Linux.
- Assisted with the POA migration to Linux.

INTELSAT Satellite Program Office, Toulouse, France   **Nov 2000-Jul 2004**
ISPO Systems Engineer
- Planned, administered and integrated and tested the GNS in Toulouse for the full lifespan of the IS-X project. This included the maintenance of HP-UX, Linux, and WinNT boxes.
- Provided solutions to all requests from the ISPO engineers.
- Produced appropriate specifications and support documentation for the applications being developed.
- Trained and coached engineers on the usage of PGP and the Integrated Telemetry Management System (ITM) system. ITM handles retrieving, archiving and processing of TM and CMD data for all SC.
- Managed the conversion and quality assurance process for the IS-X CMD and TM database and implemented all requirements using C++ and SQL. Served as link between Intelsat's and manufacturer's DB departments.
- Planned, administered and maintained all network equipment.
- Attended all International Trade and Arms Regulation (ITAR) training sessions and ensured ITAR compliance of the Toulouse office.
- Set up and configured the test rack for the compatibility test.
- Attended a course for Ticra's GRASP antennae design program suite and wrote a GUI to display the generated antennae pattern in 3-D space (http://www.MovingSatellites.com/DataCube)

INTELSAT Satellite Systems Department, Washington, DC   **Jun 1997-Nov 2000**
Senior Software Developer
- Served as the task leader for four full time software developers for ITM.
- Developed in close cooperation with the ISPO engineers new GUIs, and functionalities for ITM.
- Completed projects working with Java, C++, PERL, CGI, JavaScript, HTML, Powerbuilder, and MS-ACCESS.
- Developed dynamic web interface using CGI/Perl/sh to generate DHTML, JavaScript code.
- Generated database front end using MS-ACCESS
- Converted the IS-k database from FoxPro tables to Oracle.

Fachhochschule Diegurg, Dieburg, Germany   **Jul 1996-Jan 1997**
Diploma Work (Equivalent Masters Thesis Practicum)
- Developed a satellite tracking program in Visual C++ using OpenGL and MFC for Windows 95 / NT. This program implements the NORAD SGP4 / SDP4 orbital models for use with the NORAD two line element sets to determine the earth centered inertial (ECI) coordinates of satellites.
- The position of the satellites is then displayed in 3-D and 2-D Mercator view.
  http://www.MovingSatellites.com

Zentrum für Graphische Datenverarbeitung, Darmstadt, Germany   **Jun 1996-Jan 1997**
As part of a five member team, developed a VRML-parser in C++, using OpenGL to display the graphic objects.

École d'Ingénieurs Télécoms (Enic), Lille, France   **Feb 1994-Jun 1994**
During one practical semester (BPS), attended partner-college in France, and programmed a database using MS-ACCESS 2.0. This database was intended for the administration of employees' data and is now in use by *France Télécom.*

Postgiroamt, Frankfurt, Germany   **Jan 1987-Aug 1991**
As an Electro-mechanician, repaired and serviced all the computers and data processing units.

TECHNICAL SKILLS

Systems: Linux, Web environment, Windows, UNIX

Expertise in:
- HTML5, JavaScript, jQuery, QooxDoo, Ajax, WebSockets, WebWorker, PHP, NodeJS
- C++, Parallel C++, distributed C++ scripting, Sockets, pthreads, std::threads, WinThreads, Server-Client architecture, MFC, Qt 3.x, Qt 4.x, OpenGL
- gcc, VC++, llvm, clang, cling, CINT, pcc
- ZeroMQ, RabbitMQ

Applications: MS-Office, OpenOffice, MS-Access, MS-Project, Ticra's GRASP, Visual Studio, Paint Shop Pro, The Gimp, CVS, git, Bugzilla

EDUCATION

German Telecom College, Fachhochschule Dieburg, Dieburg, Germany
Engineering Diploma (Equivalent Post-Bachelors Telecommunication Engineering degree)

TRAINING

Professional Training: Electro-Mechanic Technician, Postamt 1, Frankfurt/Main, Germany

LANGUAGES
- English
- German
- French

INTERESTS AND ACTIVITIES
- Programming.
- New and evolving technologies.
- Sports

Side projects:

GPS: 3D interactive satellite prediction software (freeware)
DataCube: 3D interactive data exploration for GRASP antennae design software (freeware)
QDVDAuthor: DVD-Authoring tool for Linux (GPL)
PCC: Parallel distributed C++ language extension. Compiler based on Clang / LLVM (in progress)
AstraNOS: Web Operating System (in progress)

US Citizen.