

EDWARD PATEL

SUMMARY OF SKILLS

Experienced in software design at lower protocol, platform and application levels.
Experienced in software design for real-time systems in distributed environments.
Broad experience of computing and software development on a variety of platforms.
Broad experience of telecom & internet applications, infrastructure and technologies.
Experience in modeling & simulation technologies, design and implementation, standards and interoperability.
Experienced in project management at operational level.
Extensive experience interacting with customers on technical matters.
Self-driven and result-focused with experience of working across the whole development process.

KEY ASSIGNMENTS

- Mag+** **2011 – current**
Lead iOS developer
Support and maintaining legacy code base. Improving system workflow and customer experience. Leading iOS team of two developers other than me. Preparing the re-write of iOS code base and planning first part of project involving a new magazine reader on iPhone, also created mockups as design contracts.
- FLSC/FOI** **2009 – 2010**
Porting from SGI to Linux
Porting of combat flight simulator from Silicon Graphics to Linux. Main part was porting a radar operator control and command station.
- Memention AB – in-house** **2008 – 2009**
iPhone development
Design and implementation of eight iPhone programs available at App Store. MemeDots, Clara, Chess Game, Sthlm C, iSpinBottle, Eagle, Go Shirt and Tires 3D.
- FLSC/FOI** **2007 – 2008**
Porting from SGI to Linux
Design and implementation of a new build system and porting of simulator from Silicon Graphics to Linux.
DIS features
Design and implementation of added radar functionality for DIS connectivity in preparation for live training with AFRL.
HLA features
Implementing tools for simulator of airborne radar station Link16 data over HLA.
Norway study
Participating in setup and feature integration for simulation study made for Norway.
NTN preparation
Technical advisor for setup of a National Training Network for realtime distributed simulations.
- Saab Systems AB** **2006 – 2007**
Network Protocol Simulator
Adaption of a universal protocol simulator (XSim) for a specific XML based protocol to be used for development and verification.
CAN Bus Simulator
Adaption of a universal protocol simulator (XSim) for a CAN bus based protocol to be used for development and verification.

HLA Bridge

Implementation of a HLA bridge to be used at a simulation facility integrating a tactical C2 system.

FLSC/FOI

2006

HDD Recording and Playback

Design and implementation for recording and playback of flight simulators Head Down Display in realtime

Connectivity for HawkEye

Design and implementation of connectivity from current simulator running on Silicon Graphics to HawkEye on Windows for realtime presentation

Presentation symbols in HawkEye

Implementation of new symbology for various information items in HawkEye

Memention AB – inhouse

2005

Webservice

Design and implementation of a prototype for a webservice

FLSC/FOI

2005

HawkEye playback distribution

Design and implementation for distributed playback of recorded simulations to multiple HawkEye programs

Teligent AB

2005

Various system maintenance

Design and Implementation of methods to extract information for internal status in runtime. Also debugging of various components

SNMP Toolkit

Implementation of an easy to use SNMP toolkit for use in a next generation platform

FMV

2005

Demo system

Implementation of an interface between a commercial flight simulator (X-Plane) and Merlin (a model API used at FOI) for a public presentation of Merlin

FLSC/FOI

2004

HawkEye – presentation application

Design and implementation of a presentation application to playback recorded simulations performed at FLSC.

Teligent AB

2003 – 2004

Performance measurement infrastructure

Design and implementation of a distributed performance measurement infrastructure in the Teligent P90/E platform

Implemented PM protocol to Workstation in Java

IVR application change request

Implementation of customer change request in Teligent IVR (Interactive Voice Response) application

Configuration server

Design and implementation of a configuration server for the Teligent P90/E platform

MVPN Dual Site Pre-study

Pre-study of “dual site” database mirroring solution for Teligent Mobile VPN application.

MySQL database replication daemon

Design and implementation of parts of a synchronous MySQL database replication daemon. Cluster-like, fault-tolerant solution that may be used in WAN environments with little or no impact on existing database (MySQL) access components.

Used as base for Teligent MVPN application “dual site” solution.

- FLSC/FOI** **2001 – 2003**
- Simulator Access Database**
Design and implementation of a database for measuring the simulators accessibility
 - HLA**
Design and implementation of a module to make the simulator HLA compatible
 - PC Dome prototype**
Design and implementation of an alternative Out-The-Window (OTW) module capable of running on a cluster of PC's generating up to 8 video channels in a dome configuration.
 - Simulator Modules**
Various improvements in the simulators distributed modules
- izaXon AB** **2002**
- PalmOS development support**
PalmOS development advisor and example code
- mi4e AB** **2000 – 2001**
- WAP Gateway**
Porting of ThunderWAP from Windows to Linux and integration into Apache
 - OTA Component**
Research, design and implementation of a Over-The-Air (OTA) configuration setup component for mobile phones
- Primate Systems Inc.** **2000**
- Commercial Products**
Design and implementation of MonkeyLogo, MonkeyTone and MonkeyCard. PalmOS programs for sending Operator Logos, Calling Group graphics, Ringtones and Picture Messages to Nokia Mobile Phones
- FLSC/FOI** **1999 – 2000**
- User interfaces**
Various changes in the user interfaces
 - Simulator Modules**
Various improvements in the simulators distributed modules, specially the Out-The-Window (OTW) and Simulation Viewer (Scvis)
 - Device Driver**
Implementation of a device driver for fast PCI A/D acquisitions for the flightstick
 - Software Engineering**
Software Engineering advisor
- Teligent AB** **1999**
- Service creation**
Public Telephone Network service creation. Voice Messaging service for a UK based PTN provider
- Ericsson Saab Avionics AB** **1999**
- Radar Operator Simulator**
User interface improvements of a Radar Operator Station in a distributed flight simulator system
- Nokia Multimedia Terminals AB** **1998**
- Nokia Media Master**
Implementation of configuration and a system message display for the set-up box embedded ARM system
- Clarus AB** **1995 – 1998**
- Virtual Showroom**
Design and implementation of a distributed Virtual Showroom
 - Tank Simulator**

Design and implementation of first version of a Leopard-2 tank simulator
 Design and implementation of second version of a Leopard-2 tank simulator

TRaCS

Software engineer and system designer in the TRaCS project, a Joint European Project aiming at the design of a low-cost truck and coach simulator

StorSim

Software engineer and system designer in the StorSim project, a truck simulator at Stora Holm/Gothenburg

Simulators

Implementation of various simulations for demonstration
 Modeling using MultiGen/ModelGen

Consulting

Assisting with simulator integration with DIS at FFA
 Assisting with simulator integration with DIS at Ericsson Saab Avionics
 Assisting planning and design of FLSC (www.foi.se/flsc) a multi-manned simulation center for air-to-air combats

Teligent AB

1993 - 1995

Service and Management (SMS-90)

Design and implementation of the Report Generator (REPGEN)
 Design and implementation of the Database Handler (DBH)
 Design and implementation two External Communication Processors (ECP)
 Overall design of SMS-90 and project manager of the SMS-90 project

Sectra AB

1992

FKK crypto device

Design and implementation of AppleTalk in an embedded system for telecom crypto.
 Design and implementation of a Macintosh application for debugging and testing an embedded system for telecom crypto.
 Debugging and enhancement of a stand-alone crypto application for Macintosh.

EDUCATION

1992 Degree of Master of Science in Computer Science

TECHNICAL SKILLS

Programming

Languages: Assembler, Ada, Basic, Pascal, Object Pascal, Java, Forth, Lisp, Scheme, Visual Basic, ASP, C/C++, SQL
Platforms: Mac OS X, Linux, Irix, Windows, DOS, VAX/VMS, Sun Solaris, Teligent P90/E, PalmOS, PocketPC
Dev. Environments: GNU Tools, Cygwin, CVS, SCCS, Perforce, Subversion, Visual Studio, XCode, RapidApp, Qt, Vega, MPW, ET++ , Symantec C++, MS Access
Protocols: TCP/IP, AppleTalk, HTTP, WAP, SMS, T3SIM, HLA, DIS
DBMS: Oracle, MS Access, MySQL

LANGUAGES

Swedish (mother tongue): Fluent
English: Fluent

PERSONAL INFORMATION

Nationality: Swedish
Marital status: Married with two children

Date of Birth:

4th of February 1967

CONTACT INFORMATION

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edward.patel@memention.com**REFERENCE INFORMATION**

Supplied on request.