

# EDWARD PATEL

## SUMMARY OF SKILLS

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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

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- FLSC/FOI** **2009**  
**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](http://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**

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1992 Degree of Master of Science in Computer Science

**TECHNICAL SKILLS**

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**Programming Languages:** Assembler, Ada, Basic, Pascal, Objective C, Object Pascal, Java, Forth, Lisp, Scheme, Visual Basic, ASP, C/C++, SQL  
**Platforms:** Mac OS X, Linux, iPhone, 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**

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**Swedish (mother tongue):** Fluent  
**English:** Fluent

**PERSONAL INFORMATION**

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**Nationality:** Swedish  
**Marital status:** Married  
**Date of Birth:** 4th of February 1967

**CONTACT INFORMATION**

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**REFERENCE INFORMATION**

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Supplied on request.