

Architect and embedded software specialist

Mark Seuffert is specialised in embedded and mobile applications. With many years of professional software engineering experience and working in different countries he has extensive knowledge in a variety of embedded systems. He is an expert in agile development and good at communication with people.

Contact info

Mark Seuffert
Magle Stora Kyrkogata 6
223 50 Lund
Sweden

Email: mark2011 @ piratson.se
Mobile phone: (upon request)
Web: <http://www.piratson.se>

Career objectives

- System architecture, software development processes and project coordination
- Creating software for embedded and mobile applications
- Creating environments that are creative and productive

Looking for position as system architect, project leader or software engineer. Areas of expertise include startups, telecommunication, medical technology, health care, consumer electronics, embedded, Internet service providers, web services and digital media.

Specialised skills

- System architecture, product requirements analysis, top level software design
- Project coordination with agile/lean processes (Kanban, Scrum, XP), analytic thinking
- Embedded systems (experience with development tools, verification, integration)
- Mobile applications (experience with web browser, messenger, information exchange)
- 10+ years practice in C/C++ (STL, design patterns, refactoring, TDD, UML)
- Networking, excellent knowledge (IP, TCP, UDP, P2P, compression, encryption)
- Graphics, excellent knowledge (GUI, user interaction, image formats)
- Linux and Windows applications (Posix, GNU, Win32, MFC, QT)
- I am a team player, used to working with people from different backgrounds

General IT skills

- Networking & protocols: Ethernet, IP, TCP, UDP, TLS/SSL, HTTP, GPRS
- Languages: C/C++, Assembler, Perl, Python, PHP, JavaScript, XHTML, CSS, XML, XSLT
- Tools: DOORS, Eclipse, Visual Studio, SVN, CVS, CME, Clearcase, Trac
- Mobile platforms: Linux, iOS, OSE, Symbian, Ericsson, Nokia, Motorola

Other activities

- Passion for computer games
- Interest in communication technologies
- Enjoying Italian food, baking pizza and cakes

Areas of interest

- Embedded systems
- Mobile applications & Internet
- Development processes

Language skills

- German: Mother tongue
- Swedish: Fluent
- English: Fluent

Work experience in interest areas

5 - 10 years

Preferred countries

Sweden, Denmark

Type of contract interested in

Consultant, project-based or long-term

Employments

- Piratson Technologies, Sweden 2005 – Present
- Innovative Ideas, Finland 2004 – 2005
- Picsel Technologies, Scotland 2003 – 2004
- Pitech, Germany 1994 – 2003

Education

- Certified Scrum Master, Copenhagen, Denmark 2008
- Requirements management in DOORS, Lund, Sweden 2007
- iSQI Certified Professional for Software Architecture, Berlin, Germany 2006
- Mathematics, Computer Science and Business Economics
University Mannheim, Germany 1992 – 1995
- Technical Gymnasium (Mathematics, Electronics and Engineering)
Carl Bosch Schule Heidelberg, Germany 1987 – 1990
- Public School Wiesloch, Germany 1977 – 1987

Recent projects and references

Some of the projects listed below were from repeat customers:

- **Piratson Technologies**, Sweden 07/2009 – now
Business field: Software Development
Product planning and application development for a LAN messenger available for Linux and Windows. I created roadmap, feature specifications, documentation and was responsible for coordination with customers.
Contact person: David Fehrmann
- **Ericsson Charging Systems**, Sweden 11/2008 – 6/2009
Business field: Mobile Communication, Online Charging System
Application development and automated testing of new features (C/C++/XML/Solaris) for mobile phone operators. I introduce agile planning tools to development teams and created a test to measure progress of agile adoption (Karlskrona test).
Contact person: Klas Nyström
- **Epsilon Embedded Systems**, Sweden 7/2008 – 9/2008
Business field: Medical Technology and Embedded Systems
Project planning for a Swedish manufacturer of medical electronic equipment. I was responsible for agile development processes and Scrum coaching. Furthermore setting up a verification team with the product backlog in DOORS.
Contact person: Anders Berg
- **Ziehensack Engineering**, Germany 6/2007 – 5/2008
Business field: Medical Technology and Embedded Systems
Research and firmware development (R&D) for embedded systems. A microcontroller based fast, low-cost communication between electronics and PC using USB. I developed new C firmware (Atmel AVR) and improved data visualisation tools (Linux/Windows/QT).
Contact person: Frank Ziehensack
- **SwitchCore AB**, Sweden 1/2006 – 3/2007
Business field: Network Electronics and Embedded Systems
Requirements specification for a manufacturer of high speed network L2/L3 switching hardware (requirements in DOORS). Later I was project leader for a reference model, which is the functional model of a switching ASIC in C++. I was responsible for project planning, software design, development processes and coordination with other projects.
Contact person: Peter Yberg

- **Tetra Pak**, Sweden 9/2005 – 1/2006
 Business field: Business Support and Web Services
 Updating an internal online shop together with the customer. I designed and implemented XSLT to transform an XML based content management system (CMS) into web pages. Additionally, improving user interface and site navigation.
 Contact person: Magnus Lindgren
- **Ericsson Mobile Platforms**, Sweden 5/2005 – 9/2005
 Business field: Mobile Phone Platform, System Verification
 Research and development (R&D) for high speed data transfer in mobile phone systems. An investigation of Ericsson's Test Verification Platform and OSE (C/C++/COM) for faster exchange of data between mobile phone and PC, e.g. sending audio and video streams.
 Contact person: Jonas Bengtsson
- **Ericsson Mobile Platforms**, Sweden 4/2004 – 10/2004
 Business field: Mobile Phone Platform, Core Applications
 Application design for PIM applications on 3G mobile phones using Ericsson's OPA. I wrote design specifications for phone startup, application launcher, SMS, MMS and SyncML client. Later I was working in the architecture group on use cases analysis.
 Contact person: Mats Klippberg
- **Picisel Technologies**, Scotland 3/2003 – 3/2004
 Business field: Embedded Software for Smartphones
 Application development for a web browser of a worldwide operating Symbian OS partner. I was working with secure networking on Symbian (C++), developed skinnable GUI and user interaction improvements. Furthermore, I created protocol and prototype design for a thin messenger (email, SMS, MMS). Thin means small in code size and bandwidth consumption, saving money is from big interest in Scotland.
 Contact person: William McNicol
- **Ziehensack Engineering**, Germany 9/2001 – 12/2002
 Business field: Medical Technology and Embedded Systems
 Research and firmware development for exact digital analysis used in medical equipment. Required was a reliable microcontroller based analysis of complex signals. I implemented optimised C and Assembler code (Texas Instruments MSP microcontroller), exact mathematical integration for a wide range of analogue signals.
 Contact person: Frank Ziehensack
- **Commouse AG**, Germany 1/2001 – 8/2001
 Business field: Consumer Electronics and Embedded Systems
 SDK development for mobile phone dot matrix LCD and CCD camera. I created a graphics library in C++ based on my own VGA graphics and font library, was responsible for technical consulting of 3rd party developers (e.g at SAP in Germany). Additionally, developing applications to visualise online content (e.g. news, stocks, emails, MP3s).
 Contact person: Wolfram Grizwa
- **Siemens AG** (Sirona Dental), Germany 5/1999 – 3/2001
 Business field: Medical Technology and Embedded Systems
 Firmware design for a leading manufacturer of medical electronic equipment, creating a SDK in C++ for internal developers (Infineon C167 microcontroller, CAN). Sub systems had a large number of sensors/actors and required a high level of reliability. Further on developing tools for visualisation and remote control (RS-232, Windows, MFC).
 Contact person: Bernd Öhme

To see the projects I have worked before, please visit my website.

Embedded Systems and Mobile Applications

I like creating software for embedded and mobile applications. Especially products that combine networking, graphics and user interfaces are something that catches my interest. Coming from an embedded background for medical devices I am very interested in reliable systems, good development processes and quality management from the start. I am familiar with product requirement analysis, system architecture and project management. From my projects at Siemens in Germany I am used to working with different embedded systems (8 - 32bit), these days I am working on ARM based systems and Linux most of the time.

I prefer a people-oriented and customer-oriented way of working. Believing that good teams and good software processes achieves goals, I tend to see myself as someone supporting others and who likes solving problems in collaboration with others, including engineers and customers. My tools of choice are here maintaining good communication channels, sharing information, motivating coworkers to take responsibilities/challenges and generally enjoying what you do.

Background and motivation

With over 10 years professional experience in software development I would describe myself as an experienced system architect, project leader and software engineer

My main interest lies in creating software and improving technology, as well as creating environments where ideas can be realised and people enjoy working with each other. I believe in life-long education, learning from various perspectives and enjoying in what you do.

With kind regards,

A handwritten signature in black ink, appearing to read 'M. Seuffert'. The signature is fluid and cursive, with a large initial 'M' and a long, sweeping tail.