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Curriculum Vitae / Qualification Profile

Personal data

Born	1968
Nationality	German
Higher Education	Computer science at the Technical University of Munich (Germany) and the University of Tromsø (Norway)
Degree	Diploma in computer science in Munich in 1997.
Languages	German and English: spoken and written fluently; French and Norwegian: well spoken.
Professional Career	Part time programming jobs during studies since 1990; Permanent employment 1997-1999; Full time contractor/consultant for embedded SW since 1999.

Special Qualifications

- Very good programming skills in C, good in C++; solid foundations in assembler (Motorola 68k, ADSP, ARM). Can do: Perl, Windows-shell, Unix-shell.
- Well-structured software development for embedded systems with real-time requirements and hardware interaction. Experience with CASE tools and software quality guidelines and workflows on different customer sites.
- Debugging of embedded systems (oscilloscopes, logic analyzers, emulators etc).
- Communication standards and protocol software (TCP/IP, GSM/GPRS, some Bluetooth).
- Development on MS Windows (Visual Studio, Source Insight, PVCS, Continuus, ClearCase, WinCVS, nmake, Lauterbach) and on Unix-type systems (emacs, gcc, gdb, make, CVS, lex, yacc, perl, troff, TeX).
- Experienced consultant who easily integrates into a team and productively picks up on a new project.

Projects

- 2004-2009: Development of a complex machine control with CORBA interface and CANOpen device control on WinCE and WinXP. Design partly in UML, development in C++. Numerous responsibilities within a team spread over three company sites. These included: crafting a build system, development of new code, porting of existing libraries, reuse of existing PC application code in an embedded environment, debugging and documentation.
- 2003-2004: Functional verification of mobile and bluetooth chipsets (development and adaption of test software, verification against the spec, documentation). Responsibilities included team coordination and code review.
- 2002-2003: Integration and debugging of GSM/GPRS layer 1 with hardware drivers and protocol stack; test software to simulate the stack and run the L1 against conformance tester.
- 2002: Software development for a CAN-bus connected motor controller.
- 2001-2002: Development, debugging and integration for GSM and GPRS mobile phones (protocol stack layer 2/3 and application layer: SS, SMS, USSD, ...).
- 2000/2002: Porting of a TCP/IP protocol stack into an existing embedded system environment of legacy assembler code. Development of the TCP application layer within the embedded software.
- 2000: Requirements analysis for a HIPERLAN/2 protocol stack.
- 1999-2000: Collaboration on Layer 1 protocol software for ICO/GSM protocol tester.
- 1999 / 2000: Customized control software for laser-marking systems.
- 1997-1999: Porting of C cross-compiler environment and TCP/IP stack to new target hardware (M68k CPU), development of minimal operating system (task switching, queues, semaphores, memory management).
- 1995-1996: Development of vector graphic functions suitable for an embedded system for laser marking (shape filling, aligning text along free contours).
- 1994-1995: Design of a specialized programming language and development of a compiler for that language in a UNIX environment.
- 1993-1994: Software development for a complete VMEbus system controlling the custom-built JPEG compression hardware and an NCR SCSI controller.

Customers

(some through agencies / software companies)

- rofin / Baasel Lasertechnik GmbH
- Infineon AG
- Leonardi Systeme
- National Semiconductor
- Rohde & Schwarz
- Sony International (Europe) / Sony Ericsson Mobile