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Curriculum Vitae

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1 Personal information

- Personal:** Date of birth: 23 January 1964
Nationality: Danish
Marital status: married
Children: 3
- Degree:** M.Sc.EE in System Engineering and Process Control at Aalborg University, Denmark 1989
- Foreign languages:** Danish: fluent
English: fluent
German: fluent
French: working knowledge
- Personal profile:** "responsible, motivated, tolerant, trustworthy, constructive, independent, creative, entrepreneur, action-oriented, having a sense of humor" (Unik Personale)
- Current responsibility:** Director for EMERCOS, a software consulting and development company.
- Professional expertise:** Expert knowledge in development and system integration of management systems, particularly Tele Network Management and control/monitoring of trains. Broad experience in the field of distributed systems – both server and client side. Experience with the newest development tools and standards, such as J2EE/internet applications. Expert knowledge in the field of Oracle databases (DBA) and development.

2 Tools and technologies

2.1 Programming languages and tools

Tool / technology	Last used	experience (knowledge=* expert=*****)
Java	2007	*****
C/C++ (gcc)	2007	*****
Microsoft Visual C++	2007	*****
Tcl/tk	2003	*****
Lex/Yacc	2002	****
Corba Tao	2005	****
Corba JacORB	2007	*****
RPC	1992	*****
Make	2004	*****
Ant	2007	*****
Maven2	2007	*****

2.2 Web/Internet tools/frameworks

Tool / technology	Last used	experience (knowledge=* expert=*****)
J2EE	2007	****
EJB	2006	****
EJB3	2006	***
Hibernate	2007	****
JPA	2007	***
Wicket	2007	****
JSP	2005	*****
JSF	2006	****
Oracle ADF JSF	2006	****
Struts	2005	*****
xDoclet	2006	***
Apache Http	2005	***
XML/XSL	2007	*****
Jaxb	2007	****
Jakarta Cocoon	2003	***
DHTML	2005	****
Javascript	2005	***
Oracle UIX	2004	***
JPublish	2004	**
FreeMarker	2004	**
HttpClient	2006	****
Apache Axis2	2006	****
AXIOM	2006	****
XmlBeans	2007	***
Xercesc	2007	****

2.3 UI framework

Tool / technology	Last used	experience (knowledge=* expert=*****)
X/Motif	1999	****
Java swing	2005	****
Oracle ADF Business Components	2005	*****
Oracle ADF Toplink	2005	**
Spring2	2007	****
Jasper	2006	***

2.4 Database technology

Tool / technology	Last used	experience (knowledge=* expert=*****)
Oracle 6-10g DBA	2007	****
Oracle PL/SQL	2007	*****
Oracle Forms	1999	*
Oracle Report	1999	*
Oracle Designer	2003	*
MySQL	2007	****
Oracle OCI	2004	****
Oracle Template Library (OTL)	2005	****
Oracle Pro*C	2000	****

2.5 Open source tools and frameworks

Tool / technology	Last used	experience (knowledge=* expert=*****)
Tomcat	2007	****
Jetty	2007	****
JBoss	2007	****
Apache webserver	2007	*****
Compiere	2006	*****
Ofbiz	2004	***

2.6 IDE

Tool / technology	Last used	experience (knowledge=* expert=*****)
JBoss IDE	2006	****
Oracle JDeveloper	2007	*****
Eclipse	2007	*****
IntelliJ IDEA	2007	***
Borland TogetherJ	2002	***

2.7 Test framework

Tool / technology	Last used	experience (knowledge=* expert=*****)
JUnit/CppUnit/HtupUnit	2007	****
Dejagnu/Expect	2003	****

2.8 Operating systems

Tool / technology	Last used	experience (knowledge=* expert=*****)
Unix DBA + internals	2005	****
Linux DBA + internals	2007	*****

LynxOS DBA + internals	1996	*****
OS-9 DBA + internals	1992	*****
MS-Windows DBA + internals	2007	***

2.9 Network protocols and framework

Tool / technology	Last used	experience (knowledge=* expert=*****)
SOAP (Web services)	2006	****
TeMIP	2003	*****
AdventNet SNMP	2007	*****
SNMP4J	2007	*****
Net-SNMP	2007	*****
SDH	2003	*****
SDH/Sonet MS-SPRing	2003	*****
MPLS	2003	*
TCP/IP	2003	*****
X.25	1992	*****
RS232	2004	****
Gigabit Ethernet	2003	*
DVB-SI	2007	****
DVB-EPG	2007	****

2.10 Desktop publishing tools

Tool / technology	Last used	experience (knowledge=* expert=*****)
MS-Word	2007	*****
MS-Excel	2007	***
Macromedia Dreamweaver	2004	****
Macromedia Flash	2004	*
MS-Visio	2003	****
Adobe Framemaker	1999	**
Corel Photopaint12	2007	*****
Corel Draw12	2007	*****
Documentum	2003	*
OpenOffice 2.3	2007	***
Trados 2007	2007	**

3 Professional experience

- 2007** **Emercos, Denmark (customer project)**
 Projekt: Management interface for SAT200 satellite receiver
 Projektfunktion: [Konsulent] Developer
 Tekno/værktøjer: Eclipse, Java, SNMP4J, CORBA, Maven2
- 2007** **NOVO Kommunikation A/S**
 Projekt: Furniture portal
 Projektfunktion: [Produktudvikling] Architect and developer
 Tekno/værktøjer: OpenCms, wicket, JPA, hibernate, spring2, Maven2
- 2007** **Emercos, Denmark**
 Projekt: Projekt planning and issue reporterings system
 Projektfunktion: [Produktudvikling] Architect and developer
 Tekno/værktøjer: IDEA, wicket, hibernate, spring2, JPA, Maven2
- 2007** **Emercos, Denmark (customer project)**
 Projekt: Electronic Program Guide (EPG) data import module
 Projektfunktion: [Konsulent] Architect and developer
 Tekno/værktøjer: IDEA, Spring2, hibernate, pl/sql, jaxb, Maven2
- 2007** **Emercos, Denmark (customer project)**
 Projekt: Management interface for Thales Amber I + II multiplexers
 Projektfunktion: [Konsulent] Developer
 Tekno/værktøjer: Eclipse, Java, SNMP4J, CORBA, Maven2
- 2006** **NetworkRail, England**
 Projekt: Design/implementation of train wheel data reporting system
 Projektfunktion: [Produktudvikling] Architect and developer
 Tekno/værktøjer: Oracle, PL/SQL, Jdeveloper, SFTP, JavaMail, JSF, ASF, JasperReport, Oracle, hibernate
- 2006** **Emercos, Denmark (customer project)**
 Projekt: Design/implementation of DVB service activation module interfacing between Cherry Picker snmp traps og Tandberg nCompass DVB Management System.
 Projektfunktion: [Konsulent] Architect and developer
 Tekno/værktøjer: Eclipse, Java, SNMP4J, CORBA
- 2006** **Emercos, Denmark (customer project)**
 Projekt: Xml protocol for remote interface to DVB management system
 Projektfunktion: [Konsulent] Developer
 Tekno/værktøjer: Eclipse, C++, XercesC
- 2006** **Emercos, Denmark (customer project)**
 Projekt: Implementation interface module to VideoPropulsion DVB-ASI card.
 Projektfunktion: [Konsulent] Architect and developer
 Tekno/værktøjer: Eclipse, C++, XercesC, java, JNI, DLL
- 2006** **Emercos, Denmark (customer project)**
 Projekt: Implementation SOAP interface to Tandberg nCompass DVB Management System
 Projektfunktion: [Konsulent] Architect and developer
 Tekno/værktøjer: Eclipse, java, JacORB corba, HttpClient, XmlBeans, AXIOM, Axis2 web services (SOAP)
- 2006** **Emercos, Denmark (customer project)**
 Projekt: Implementation of snmp alarm/redundancy module for ROSA Element Manager

Projektfunktion:	[Consultant] Architect and developer
Tekno/værktøjer:	Eclipse, AdventNet snmp, Net-snmp, java, JacORB corba
2006	Emercos, Denmark (customer project)
Projekt:	Implementation of snmp alarm module for D9032 mpeg2 encoder
Projektfunktion:	[Consultant] Architect and developer
Tekno/værktøjer:	Eclipse, AdventNet snmp, Net-snmp, java, JacORB corba
2006	Emercos, Denmark (customer project)
Projekt:	Implementation of snmp alarm module for Stellar XT mpeg2 decoder
Projektfunktion:	[Consultant] Architect and developer
Tekno/værktøjer:	Eclipse, AdventNet snmp, Net-snmp, java, JacORB corba
2005	Emercos, Denmark (customer project)
Projekt:	Implementation of snmp access module for Pro-bel Halo ASI/SDI router
Projektfunktion:	[Consultant] Architect and developer
Tekno/værktøjer:	Eclipse, AdventNet snmp, Net-snmp, java, JacORB corba
2005	Emercos, Denmark (customer project)
Projekt:	Implementation of snmp filter plugin.
Projektfunktion:	[Consultant] Architect and developer
Tekno/værktøjer:	Eclipse, AdventNet snmp, Net-snmp, java, JacORB corba
2005	Emercos, Denmark (customer project)
Projekt:	Implementation of a corba access module for SA DVP9600 Transport Stream multiplexer.
Projektfunktion:	[Consultant] Architect and developer
Tekno/værktøjer:	Eclipse, VC++, TAO-corba
2005	Networkrail, England
Projekt:	Implementation of generic reporting tool for use in relation with data-mining.
Projektfunktion:	[Product development] Architect and developer
Tekno/værktøjer:	JDeveloper, Jasper, tomcat, java
2005	Networkrail, England
Projekt:	Distribution of data via secure connection.
Projektfunktion:	[Product development] Architect and developer
Tekno/værktøjer:	JDeveloper, JBoss, EJB3.0, SSL, java stored procedures
2005	Networkrail, England
Projekt:	Installation of linux, Oracle and applications software on a productions server in a SAN cluster.
Projektfunktion:	[Produktudvikling] Systemsintegrator og project manager
Tekno/værktøjer:	JDeveloper, Redhat, Oracle 10, HP-SAN, Java-webstart, tomcat
2005	Emercos, Denmark
Project:	Implementation of Compiere CRM/ERP system, including development of specific modules.
Project function:	[Product development] Architect and developer
Tech./tools:	Java, J2EE, Oracle 10g database, java swing, java webstart, DHTML, Javascript, JSP, Struts, Tomcat, JBoss, Oracle JDeveloper, Oracle ADF Business Components
2004-2005	Networkrail, England
Projekt:	Development of Wheel Monitor System for an English customer. Complete surveillance system used by train operators for monitoring the conditions of wheels. The system includes a server for collecting the data, java swing and web client applications, including alarm display, graphical trending, data mining, reporting, user profiles and authentication.
Project function:	[Product development] Architect and developer

- Tech./tools: C++, Java, J2EE, Oracle 9i/10g database, OTL, java swing, java webstart, DHTML, JSP, Struts, Tomcat, Oracle JDeveloper, Oracle ADF Business Components
- 2004 Zonith, Denmark**
 Project: Surveillance and control system for UPS diesel power generators.
 Project function: [Consultant] Developer
 Tech./tools: Java, J2EE, DHTML, Javascript, JSP, Struts, Tomcat, Eclipse
- 2004 Emercos, Denmark**
 Project: Portal and Forum system. Complete CMS with wysiwyg html-editor, user registration, access-control, admin tools, picture gallery, file upload, product catalogue.
 Project function: [Product development] Architect and developer
 Tech./tools: Java, J2EE, MySQL, DHTML, Javascript, JSP, Struts, Tomcat, Oracle JDeveloper
- 2004 Emercos, Denmark**
 Project: FAQ system. Includes wysiwyg html-editor, user registration, access-control, admin tools, picture gallery, file upload.
 Project function: [Product development] Architect and developer
 Tech./tools: Java, J2EE, MySQL, DHTML, Javascript, JSP, Struts, Tomcat, Oracle JDeveloper
- 2004 CodeDroids, Denmark**
 Project: CRM and Content Management System
 Project function: [Consultant] Developer
 Tech./tools: Java, J2EE, Oracle DBA, DHTML, Javascript, JSP, Struts, Oracle JDeveloper
- 2003-2004 Tellabs, Denmark**
 Project: 6300 Element and Network Manager product. MS-SPRING komponent.
 Project function: [Employee] Architect
 Tech./tools: SDH, MS-SPRING protection mechanism
- 2003-2004 Tellabs, Denmark**
 Project: 6300 Element and Network Manager product. Northbound api for OEM solutions.
 Project function: [Employee] Project manager and developer
 Tech./tools: Java, Apache, Http/XML, SDH
- 2003-2004 Tellabs, Denmark**
 Project: 6300 Element and Network Manager product.
 Project function: [Employee] System engineering and product planning.
 Tech./tools: Oracle DBA, Oracle Designer, Oracle JDeveloper, C/C++, Java, XML, SDH, MS-SPRING beskyttelses teknologi, Gigabit-ethernet, MPLS
- 2003-2004 Tellabs, Denmark**
 Project: 6300 Element and Network Manager product. Chinese localization project.
 Project function: [Employee] Project manager
 Tech./tools: C/C++, Java, XML, SDH
- 2003 Quantum, USA**
 Project: CRM/ERP system for photo laboratories.
 Project function: [Consultant] Developer
 Tech./tools: Java, J2EE, Oracle DBA, EJB, JSP, xDoclet, JBoss, Eclipse, JBoss IDE, Oracle JDeveloper
- 2003 Emercos, Denmark**
 Project: Open source CRM/ERP system for SME companies
 Project function: [Product development] Developer
 Tech./tools: Java, J2EE, Oracle DBA, Java swing, EJB, JSP, xDoclet, JBoss, Eclipse

- 2000-2003** **Netman aps, Denmark**
Project: Tele Network Management systems for surveillance and provision of SDH and ATM networks.
Project function: [Employee] Systems Analyst (designer, developer, tester)
Tech./tools: Oracle DBA, Oracle OCI, PL/SQL, C/C++, Java, Java swing, XML/XSL, CppUnit, JUnit, dejagnu/expect, Corba, TeMIP, SNMP, SDH, IP, Unix internals, TogetherJ, UML, Unified Software Development Process
- 2000-2003** **Netman aps, Denmark**
Project: TeMIP Service Monitor. OSI event monitoring and synchronization.
Project function: [Employee] Developer.
Tech./tools: C/C++, CppUnit, dejagnu/expect, TeMIP, SDH, Unix internals, UML, Unified Software Development process
- 2000-2003** **Netman aps, Denmark**
Project: TeMIP Service Monitor. Service action on OSI events and alarm scheduling.
Project function: [Employee] Architect and developer
Tech./tools: C/C++, CppUnit, dejagnu/expect, TeMIP, SDH, Unix internals, UML, Unified Software Development Process
- 2000-2003** **Netman aps, Denmark**
Project: TeMIP Service Monitor. "What-if" analysis tool.
Project function: [Employee] Architect and developer
Tech./tools: C/C++, CppUnit, dejagnu/expect, TeMIP, SDH, Unix internals, UML, Unified Software Development Process
- 2000-2003** **Netman aps, Denmark**
Project: TeMIP Service Monitor. Network model specification tool.
Project function: [Employee] Architect and developer
Tech./tools: C/C++, XML/XSL, Lex/Yacc, CppUnit, dejagnu/expect, TeMIP, SDH, Unix internals, UML, Unified Software Development Process
- 2000-2003** **TDC AlarmNet, Denmark**
Project: TeMIP GAT access module for TDC Alarm Network.
Project function: [Consultant] Architect and developer
Tech./tools: C/C++, TeMIP GAT-toolkit, Unix internals, UML, Unified Software Development Process
- 2000-2003** **TDC AlarmNet, Denmark**
Project: TeMIP Corba access module for TDC Alarm Network.
Project function: [Consultant] Architect
Tech./tools: C/C++, TeMIP, CORBA, EJB, Oracle J2EE, PL/SQL, Unix internals, UML, Unified Software Development Process
- 2000-2003** **E-Plus, Germany**
Project: SNMP trap server. Analysis, multi-protocol forwarding and logging of SNMP traps.
Project function: [Consultant] Architect and developer
Tech./tools: C/C++, CppUnit, dejagnu/expect, SNMP, Net-SNMP, Unix internals, UML, Unified Software Development Process
- 1999-2000** **Honeywell A/S, Denmark**
Project: Train wheel monitoring system
Project function: [Consultant] Systems architect and developer
Tech./tools: Oracle DBA, Oracle Pro*C, C, X/Motif, Unix internals
- 1999** **Ascom A/S, Denmark**
Project: Payphone management system. Northbound interface for STC and police (Saudi Arabia).

Project function: [Employee] Systems architect and developer
 Tech./tools: Oracle DBA, Oracle Forms, Oracle Reports, Oracle Designer, Oracle Pro*C, C, X/Motif, Unix internals

1998-1999 Brüel&Kjær Sound and Vibration A/S, Denmark
 Project: Generic data-merge tool for data stored in Oracle databases.
 Project function: [Consultant] Architect and developer
 Tech./tools: Oracle DBA, Oracle OCI, Unix internals, tcl/tk

1996-1999 AdTranz Signal A/S, Denmark
 Project: System and architectural design, release coordination, evaluation of the newest software development methods and tools.
 Project function: [Employee] Systems engineer.
 Tech./tools: ESA Software Engineering Standards

1996-1999 AdTranz Signal A/S, Denmark
 Project: Platform for train management applications.
 Project function: [Employee] Architect and developer
 Tech./tools: Oracle DBA, Oracle Pro*C, C, X/Motif, Unix internals, tcl/tk

1996-1999 AdTranz Signal A/S, Denmark
 Project: Generic data-merge tool for base-, admin- and site-data.
 Project function: [Employee] Systems engineer and developer
 Tech./tools: Oracle DBA, Oracle Pro*C, C, X/Motif, Unix internals, tcl/tk

1993-1996 R&D Staff at CERN, Genève, Switzerland
 Project: Responsible for software development in the AT/VA group.
 Project function: [Employee] Working principal.
 Tech./tools: ESA Software Engineering Standards, Performance appraisal

1993-1996 R&D Staff at CERN, Genève
 Project: Logging system for vacuum data
 Project function: [Employee] All Development functions
 Tech./tools: Oracle Pro*C, Oracle Forms, Oracle Reports, Web-CGI, TCL/TK, C, X/Motif, HP-UX unix

1993-1996 R&D Staff at CERN, Genève
 Project: GUI for Vacuum Kontrolsystem (delvist outsourcing)
 Project function: [Employee] Architect, project manager and developer
 Tech./tools: Oracle Pro*C, Oracle Forms, Web-CGI, TCL/TK, C, X/Motif, HP-UX unix

1993-1996 R&D Staff at CERN, Genève
 Project: Accelerator layout CAD system
 Project function: [Employee] Architect, project manager and developer
 Tech./tools: Oracle Pro*C, Oracle DBA, PL/SQL, C, X/Motif, HP-UX unix, OpenGL

1993-1996 R&D Staff at CERN, Genève
 Project: Web browser for the accelerator inventory database
 Project function: [Employee] Architect, project manager and developer
 Tech./tools: Oracle Pro*C, Oracle DBA, C, CGI, Tcl

1993-1996 R&D Staff at CERN, Genève
 Project: Design studies for object oriented accelerator control systems
 Project function: [Employee] Architect, project manager, developer
 Tech./tools: Konference bidrag at EPAC'94, OMT, Booch, C/C++

- 1993** **CERN SL/PC, Genève**
Project: Data compressing algorithms
Project function: [Consultant] All development functions.
Tech./tools: LynxOS internals, C
- 1993** **CERN SL/PC, Genève**
Project: Control algorithms for step-response optimizations.
Project function: [Consultant] All developer functions
Tech./tools: LynxOS internals, C
- 1993** **CERN CN/CE, Genève**
Project: LynxOS device driver for Inter Etherexpress16 ethernet PC card.
Project function: [Consultant] All development functions.
Tech./tools: LynxOS internals, C
- 1993** **CERN SL/OP, Genève**
Project: Software requirement documentation for a Video Switch System for the main control room.
Project function: [Consultant] Software architect
Tech./tools: ESA Software Engineering Standards
- 1993** **CERN AT/VA, Genève**
Project: Alarm server
Project function: [Consultant] All development functions.
Tech./tools: LynxOS internals, C
- 1990-1992** **R&D Fellowship at CERN, Genève**
Project: Implementation of a diskless LynxOS VME server
Project function: [Employee] All development functions.
Tech./tools: Boot-P protocol, LynxOS internals, C
- 1990-1992** **R&D Fellowship at CERN, Genève**
Project: Implementing LynxOS device driver for X.25/RS232 terminal server
Project function: [Employee] All development functions
Tech./tools: LynxOS internals, C, ITU-T X.25
- 1990-1992** **R&D Fellowship at CERN, Genève**
Project: Implementation of 'Equipment Directory Unit'. A front-end server for surveillance and control of accelerator equipment.
Project function: [Employee] All development functions
Tech./tools: LynxOS internals, C, TCP sockets, RPC
- 1989-1990** **Master thesis work at CERN, Genève**
Project: Development of an ethernet piggyback interface for the M68020 platform.
Project function: [Employee] All development functions
Tech./tools: Xilinx FPGA, P-CAD, M68020 ASM
- 1989-1990** **Master thesis work at CERN, Genève**
Project: Development of an OS-9 device driver for ethernet. Portation of the TCP/IP stack to OS-9.
Project function: [Employee] All development functions
Tech./tools: OS-9 embedded operative system, C, M68020 ASM, TCP/IP

Training

- 2005
 - Compiere Technical Training (24h), Bonn
 - Compiere Intensive Training (40h), Bonn
- 2002
 - Oracle9i new features (dba) (37h)
 - Design Patterns (GOF) (1 semester)
- 2001
 - OOAD, UML (1 semester)
 - Unified Software Development Pro*cess (1 semester)
- 2000
 - SDH Network Standards (21h)
 - TeMIP Visual TeMIP (40h)
- 1998
 - PL/SQL (14h)
 - Oracle7 Database Administration I (28h)
 - Oracle7 Performance Tuning (28h)
- 1996
 - Object-Oriented Analysis and Design (24h)
- 1995
 - Microsoft Visual C++ and Microsoft Foundation Class Library under Windows (40h)
 - ORACLE Developer/2000 Core Technology (8h)
 - ORACLE Developer/2000 Forms 4.5 Essential Techniques (32h)
 - EN/ISO 9000 Auditor (40h)
- 1994
 - Performance Appraisal Workshop - MOAS (16h)
 - MBA program: "International Business, BUS500" Webster University (32h)
 - MBA program: "International Business Law, INB563" (32h)
 - MBA program: "Accounting Theory and Practice, BUS560" (32h)
- 1993
 - French course: "Grammaire syst. & orth. 2" Cours Commerciaux de Genève
 - German course: "Zentrale Oberstufen Prüfung (ZOP)" Cours Commerciaux de Genève
 - English course: "Advanced Composition, LLN102" Webster University
 - MBA program: "Current Economic Analysis, BUS562" Webster University (32h)
- 1992
 - French course: "Grammaire syst. & orth. 1" Cours Commerciaux de Genève
 - Building Object Oriented Systems with C++ (32h)
- 1989
 - The OS-9 Operating System (40h)
 - Transputer Workshop (OCCAM programming)

