

# Curriculum Vitae

## John Candlish

### Personal Data

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E-Mail: john\_candlish@mail.candlish.net  
WWW: www.candlish.net  
Birth date: 1 June 1959, Detroit, Michigan, U.S.A.  
Citizenship: Switzerland & U.S.A.  
Status: married to a Swiss  
Children: twin daughters, born 19 August 1992  
Hobbies: private pilot with instrument and seaplane ratings, musician

### Overview

- Nearly 30 years experience in computer sciences
- Management of complex projects with multiple parties
- Independent accomplishment of projects throughout all phases (proposal, analysis of requirements and risks, change and release management, architecture, design, development, testing, acceptance, roll-out, training, maintenance)
- Many years experience with highly-available systems including clustering, load balancing, &c.
- Expertise in stock exchange and banking environments: archiving, payments, Sarbanes-Oxley, securities prices data, back-office systems
- Expertise in Quality Assurance and Test Engineering

### Employment Experience

#### **Informatique-MTF, Givisiez**

Apr. 2004 – Nov. 2006

Senior Technical Integrator

*Duties:* Responsible for the complete integration of Financial Enterprise-Content-Management systems, including the preparation of hardware and installation of operating systems and database engines and tables. Performed configuration and tuning of UNIX servers, file systems and databases, integration-testing, roll-out, and acceptance. Responsible for the synchronisation of hot roll-outs with existing databases and file systems; performed systems administration, optimisation of databases and disaster recovery as customer service; team member in ECM systems concept development in the areas of topology, hardware systems, networks, file systems and databases; performed further development of various file system access methods; supported the management in further customer projects in the areas of: proposals, risk analysis, specification, assessment and implementation of controls.

*Platforms:* AIX, HP-UX, Solaris, Linux, Oracle, Informix, Optical Storage, EMC, FC-AL, SAP

*Customers:* Swisscom/Finnova, Fortis Bank, Bank Mees Pierson, Bank Sarasin, BIT, Alcosuisse, SHKB, Migros, VP Bank Vaduz

#### **Personal**

Aug. 2003 – Apr. 2004

Accompanying my father during his severe illness and death.

#### **Telekurs Finanz, Zürich**

Dec. 1999 – Aug. 2003

Systems Engineer II / Systems Specialist III / Financial Specialist III

*Duties:* Software Quality Assurance of the Telekurs Real-Time Finance Data System; developed test concepts; created test reports and statistical analyses; developed automated test tools; constructed and was responsible for the Quality Assurance server farm and network; member RUP development team.

*Platforms:* Solaris, Linux, Cisco-IOS, SQL, Java, Perl, C++, JMS, CORBA, RUP.

**InfoCure Corp., Enterprise Systems Unix Division,  
Beaverton, OR.**

Feb. 1998 – Aug. 1999

Programmer Analyst III

*Duties:* Programming of coded data communications for insurance remittance advice; developed new wire transfer protocols; optimisation and maintenance of ISAM databases.

*Platforms:* AIX, HP-UX, C, C++, ISAM, SQL

*Customers:* Hospitals; Dentist and Doctors' practices.

**1Soft Corporation, Blue River, OR.**

Jan. – Dec. 1997

Software Engineer

*Duties:* Porting of a 16-Bit Windows application to the 32-Bit-MFC-API; network administration; systems administration and maintenance.

*Platforms:* Microsoft Windows-NT, Microsoft Visual C++, Microsoft Foundation Classes

**University of Oregon, Eugene, OR.**

Sept. 1993 – Dec. 1996

Student in Mathematics, honours program, postgraduate level

*Activities:* Mathematics studies; programming Wolfram Mathematica; UNIX system administration; NeXTSTEP/Objective-C; Solaris/C++; LISP

**Green Tortoise Adventure Travel,  
San Francisco, CA.**

May 1990 – Aug. 1993

Adventure travel tour leader, Rancher

*Duties:* Responsible for a 325 hectare property with several buildings, equipment and its own water and electricity supply; restoration of the foundation of an historic San Francisco hotel; tour leader in the desert and mountain wilderness.

**Ram's Head Millwork, Ann Arbor, MI.**

Apr. 1986 – Apr. 1990

Owner of an award winning construction firm, specialized in historic buildings.

*Duties:* As owner of a speciality construction company I produced all the mechanical and architectural drawings that formed the basis of project planning; additionally I was responsible for the recruitment, assignment and dismissal of employees; the distribution of salaries, rents, insurance and taxes; budgeting the purchase of equipment and materials; coordinating the schedules of staff, building sites, the workshop and external resources; ensuring that legal requirements, contracts and the building regulations were followed; selling to new customers, maintaining existing customer relationships, accounting for the work carried out and when necessary enforcing the collection of moneys owed.

*Business Size:* five employees

*Customers:* for example, the State of Michigan for a restoration within the House and Senate chambers of the Capitol Building.

**Network Technologies, Ann Arbor, MI.**

Apr. 1985 – Mar. 1985

Consulting Programmer

*Duties:* C coding; format conversion and indexation of binary coded legal documents.

*Platforms:* UNIX/C, System V and BSD.

**Singer-Kearfott, Technology Transfer Office,  
Ann Arbor, MI.**

Dec. 1984 – Apr. 1985

Consultant in Machine Vision Programming

*Duties:* Production of a DEC-VAX graphics device driver providing hardware acceleration; refinement of the ERIM Picture-Processing-Language for specialised display hardware and in support of new algorithms and image topologies; machine vision algorithm development; DEC VMS systems programming.

*Platforms:* DEC-VAX, VMS, bit-slice array processors, display processors.

**Environmental Research Institute of Michigan,  
Infrared and Optics Division, Ann Arbor, MI.**

Dec. 1981 – Nov. 1984

Assistant in Research II, for a leading DoD research institute in FLIR and LADAR Technique.

*Duties:* Responsibility for the acquisition of digital data from Laser and microwave sensor arrays, and the post-processing of that data in the 2D/3D and Fourier domains; Development of graphics device driver software for DEC VAX and PDP-11 hardware; development of constructive-solid-geometry and vector-polygon visualisation systems; research team member for a 4GL picture-processing-language; development team member for an operating system and program loader in support of bit-slice array processors.

*Platforms:* DEC PDP11 and VAX, DEC VMS and RTS operating systems, ATT and BSD UNIX, bit-slice array processors.

**Jodon Laser Engineering, Ann Arbor, MI.**

1979 – 1981

Computer Engineer

*Duties:* Coding and further development of a multi-tasking real-time kernel; digital signal processing in assembly language.

*Platforms:* 16/32-bit microprocessors and 16/32-bit process control systems.

**Wayne County Intermediate School District,  
Detroit, MI.**

1977 – 1979

Computer Technician

*Duties:* Creating hardware and software for computerized voice synthesizers; coding and further development of a task switching kernel; development of microcomputer controlled hardware systems including modems, multiplexers, concentrators and Human-Interface-Devices; development of a simple morphological text-to-speech system; integration of speaking machines with other HID hardware.

*Platforms:* 8/16-bit microprocessors, micro-controllers, analogue speech synthesizers.

*Customer:* Title-A program for handicapped students.

**Education**

- 3.3 GPA. University of Oregon, Mathematics Honours Program
- 250+ Credit hours in Science and Engineering, without Diploma

**Publications**

- SME/RSEE Paper and Conference Presentation: Digital Imaging System for the Automated Inspection of Thick Film Circuits.
- ERIM Whitepaper: C3PL, CytoComputer Parallel Picture Processing Language.

**Awards**

- National Merit Scholar
- Special Tribute, State of Michigan, The Eighty-Fifth Legislature, April 24, 1990

**Language Skills**

- English: mother tongue
- Deutsch: TELC Stufe B2

## Competence Profile

### Management

- Project responsibility as required to achieve the following activities: proposal formulation, estimation, risk analysis, resource planning, project planning, purchasing, supplier management, reporting, customer care and team mentoring.
- Business management including the hiring, assignment, review and dismissal of employees.

### Test Engineering.

- **Methodology:** Demming, Six Sigma, Measurement Systems Analysis, Failure Mode and Effects Analysis
- **Statistics:** application of the Normal and Student-t distributions, sampling

### Operating Systems and Databases

- **OS:** UNIX© (Solaris, Sun-OS, Linux, BSD, AIX, HP-UX, Mach/NeXT/Mac-OSX), MVS, Microsoft
- **DB:** Informix, Oracle, MySQL, Postgresql, DB2, SyBase, ISAM
- **Physical Layer:** TCP/UDP, Optical file systems, CAS, Cisco IOS, FC-AL

### Software Development

- **Languages:** C++, Objective-C, C, SQL-92, Perl, Java, UNIX shells (sh,csh,ksh,bash), XML/XSL, XML/RCP, IDL, Common LISP, FORTRAN, Forth, Postscript, Assembly, make
- **Protocols + Services:** UDP, TCP/IP, UNIX-portmapper, RPC, CORBA, BIND, NIS, LDAP, DHCP, Samba/NetBios, rfc-822, Microsoft-MAPI, NFS, HTTP, FTP, PPP, IEEE802.11, SSH, PKI, CVS, git, ODBC, JDBC, JMS, SCSI, FC-AL
- **Concepts:** Clustering, Parallel Architecture, Threads and Processes, QoS, Algorithm Design, Machine Vision, Functional Programming, Late Binding, ISAM, CAS, Real-Time, OSI model, Testability, Six Sigma, Disaster-Recovery
- **Middleware:** JMS, CORBA, J2EE, EJB, JSP, Tomcat, Servlets, Apache

### Object Oriented Methods, Standards and Tools

- Practice with RUP, XP and other process models
- Experience with UML tools from Rational Rose and Together

### Personal Strengths

- Rapid familiarity with new tasks and situations
- Conceptual, analytical thinking and action
- Confident and direct communication style
- Capable of assuming independent responsibility
- Good team player with the ability to motivate other team members