



# PETER V. MØRCH

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This document can be found at: <http://www.morch.com/resume>

## OVERVIEW

- 43 years old and offer vast experience: **10 years in web** client and server technologies, **10 years in networking** and telecommunications.
- Looking for **Software Development position**. I have repeatedly demonstrated **Architect / Team Lead** abilities too.

## PROVEN SKILLS

- Key languages: **JavaScript, Perl, Java, C/C++**, and Python, Ruby, Tcl.
- Key technologies: **HTML5/CSS** and friends, **JSON/AJAX/REST/RPC, SQL**  
Extensive Networking insight, Design Patterns
- Buzzwords: **Linux, MVC, jQuery, Responsive, Mobile, Bootstrap, SPA, Knockout, AngularJS, D3, AWS, Puppet, DevOps**
- Considerable **Customer Contact to Understand Business Needs** and establish **Requirements** that capture and satisfy real customer needs.
- Experience with **Architecture, Design and Implementation** in these areas: **Web Applications, Networking, User Experience, UNIX/Linux, Network Management, reliable, redundant and distributed systems, Embedded Software, Build/Release/Configuration Management.**
- **12 years Architecture and Team Lead** experience - **Project Management** with distributed, cross-functional teams.
- Demonstrated ability to acquire new skills quickly and to bring projects from ideas to successful products.
- Proven ability to analyze, design and redesign Software Development and **Software Change Management Processes** using best practices.
- **Languages: English and Danish – Absolutely fluent. Speak German daily and speak some French.**

## WORK EXPERIENCE

- CapMon / Nworks** **Copenhagen, Denmark**  
Product Architect / Senior Developer / Udviklingschef 02/2009 - Present  
CapMon develops network, application and response time monitoring systems.
- In charge of creating a multi-million €/yr successful product from scratch. Has been on the market since 2002 and has a Danish market share of 5-7%.
  - Responsible for defining, designing, creating/coding/implementing all aspects and development stages of the CapMon product line.
  - Runs on **Linux** using **JavaScript, Perl, C, Java** with a multi-process and distributed architecture.
  - **Customer Contact** to consult on and define Business and Feature Requirements and communicate project state and progress.
  - Extensive experience with **Open Source Software**: E.g. **Apache, MySQL, RabbitMQ, memcached**, Nagios, RRDTool, Git. Includes extending, bug-fixing and re-packaging these applications and communicating with Open Source projects and adhering to the **GPL** and other licenses.
  - Extensive experience with **Debian** from creating and maintaining our own derived distribution and **Customized Debian Installer** for **DevOps** purposes.

**Morch Consulting** **Nice, France**  
Owner 02/2008 – 02/2009  
Primarily worked from France on CapMon as my major client. See above.

**CapMon / Nworks** **Copenhagen, Denmark**  
Manager R&D / Product Architect / Senior Developer 11/2001 – 02/2008  
Started up CapMon. See above.

**Cisco Systems** **Petaluma, USA**  
Team Lead 06/1999 – 10/2000

This business unit of Cisco developed a Telecom Access product.

- Established Software Requirements and **lead** and participated in team developing **embedded TCP/IP** functionality: **Frame Relay, NAT, RIP2** and **Firewall** as well as TCP/IP routing **performance** enhancements and bring-up and board support package for a new HW platform.
- Designed and implemented substantial enhancements to Cisco Systems' 6700 family **Network Management** framework and **GUI** in functionality, usability, stability, look & feel and maintainability.
- Implemented **embedded SNMP agent** routing table updating software and worked on various other **OAM&P** areas.
- Responsible for an **official Cisco Software Release** cycle.
- Completely re-engineered, implemented and automated **build & release processes** and **tools** as well as improving processes for software branching for the business unit. Was the primary build, release & tools contact person.
- Received one Team and two Individual Outstanding Achievement Awards.

#### Nettest

Toronto, Canada

Manager for Automated Testing Development

06/1996 – 06/1999

Nettest produces high-end telecom and networking test equipment.

- Manager of Software Development in R&D creating shipping product - not a testing position.
- Received first Outstanding Achievement Award ever given in GN Nettest.
- Originator of idea for Automated Testing framework (ATAK) - now the prime strategic direction for the interWATCH 9X000 product line.
- Architected, designed and implemented the first version of ATAK in **C++** creating a highly **UML, OOA/D** and **pattern based** object oriented architecture.
- **SNMP, Tcl/Tk internals, CORBA, TTCN.**
- Opened up an entirely new business area: Selling prewritten test suites based on ATAK. Examples include: **MPLS, PNNI, QoS, ATM Signaling Performance.**
- Designed and led team to implement **PNNI conformance** test suite in cooperation with Telcordia (formerly Bellcore).
- Totally redesigned and led the effort to implement new **build/make processes** and tools to **improve Software Quality.**
- Extensive customer contacts and visits to establish product requirements for ATAK.

#### DSC Communications

Copenhagen, Denmark

Team Lead

11/1994 – 05/1996

DSC Denmark produced a Sonet/SDH Add Drop Multiplexer (ADM).

- Responsible for designing and implementing embedded Network Management interfaces, including a **Q3 (OSI TMN CMIP)** interface and QD2 interface for Deutsche Telekom.
- Coordinated integration testing of **device driver** subsystem.
- Automated code generation and **build/make process enhancements.**
- Promoted to Team Lead four months into my first job out of university.

#### GN Nettest

Copenhagen, Denmark

Contractor / Writing of Thesis

08/1993 – 10/1994

Nettest produces high-end telecom and networking test equipment.

- Designed and developed ATM Network Analyzer for **QoS** testing of the physical layer and the **ATM layer** including development of a mathematically optimal ATM test cell with one team mate.
- Developed **OC3/STM1 interface card** with ATM layer **HW.**
- Wrote complete **GUI** interfacing to QoS testing **FPGA** incl. **device driver.**

#### Bachelor of Science - Electrical Engineering

Copenhagen, Denmark

Technical University of Denmark, DIA

08/1990 – 03/1994

- Specialized in Digital Electronics and Software.
- Graduated with a grade point average of 10.4 (easily top 10%)
- Received a grade of 13 for my thesis on "Testing ATM".

EDUCATION

*AWARDS*

**Various Courses**

- Cryptography Coursera.org
  - UML and Object Oriented Design Patterns Copenhagen, Denmark
  - Voice over IP and ATM Petaluma, USA
  - Data / Telecommunication Convergence Las Vegas, USA
  - Two Management courses AMA, Toronto, Canada
  - OSI management and TMN Copenhagen, Denmark
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- One Team and two Individual Achievement Awards for Outstanding Performance from Cisco Systems.
  - The first Outstanding Performance Award ever given in GN Nettest.