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I am an all-round engineer with a very broad knowledge. I have professional experience in RF / HF measurement techniques, digital electronics, SW and audiology for hearing aid. By combining these areas, I have implemented several complex automated test systems. I'm good in building an overview of the task and in analysing the task down to a level of design for implementation. I have in recent years concentrated on programming in C#/.NET, where I try to gain high quality and integrity. I am well liked by my colleagues and have worked in a small international team whose task was to keep a HW emulator environment running for mobile chipset design.
**Software**

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| * C#/.NET, ASP.NET, WCF, WPF, SQL.
* LINQ, HTML5, CSS, XML.
* Entity Framework, Code first.
* MVC and JavaScript.
* Audiology for Hearing aid.
 | * MS Visual Studio 2005 -> 2015.
* TFS, Git, ReSharper.
* MS SQL 2005+2008.
* Clean Code.
* Test Automation.
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# Education

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| Year. | Title. |  | Description. |
| 2010 | MCTS |  | Microsoft Certified Technology Specialist. |
| 2007 | IT-Diploma |  | Information Technology Diploma.  |
| 1996 | BSc.E.E |  | Bachelor of Science in Electrical Engineering.  |
| 1991 | Electronics Technician. |  | From Philips TV Test Equipment A/S. |

# Employer

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| Year. | Title. |  | Work Place. |
| 2015 -  | Senior Software Developer |  | GN Netcom  |
| 2014 - 2015 | Senior QA Developer |  | GN ReSound  |
| 2010 - 2014 | Senior Software Engineer. |  | Renesas Mobile. |
| 2002 - 2010 | Senior Software Engineer. |  | Nokia Danmark A/S. |
| 1996 - 2002 | Senior Software Engineer. |  | Ericsson A/S.  |

# Work experience

## GN Netcom

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| 2015 - | Senior Software Developer. (Internal position) |
| Work areas:: | Application Software for Jabra headset.* C#
* WPF
* API
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## GN ReSound

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| 2014 - 2015 | Senior QA Developer. |
| Work areas:Results: | Software firmware verification for hearing aid.* Automations test systems in C#
* Requirements, design and implementation of test cases.
* Bluetooth BLE test of hearing aid.
* Audiology test.

Test, test case implantation in C# and test specifications of hearing aid. |

## Mobile Renesas (Acquisition from Nokia)

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| 2010 - 2014 | Senior Software Engineer. |
| Work areas: | I have three responsibility areas at Renesas Mobile.Booking tool: * A complex web-based booking-system of Renesas HW emulators (3 pcs. Cadence ® Palladium ® XP - 16 domains) with different test equipment connected.

Estimation tool:* A web-based visualization tool for estimation, booking and actual utilisation of the HW emulator systems - This is used by management for budget & investment planning.

Automation tool:* An automated test system that can execute test at night, where there is free capacity of HW emulators.

Everything is implemented in C # /. NET with ASP.NET / MVC / WCF / SQL. |
|  |  |
| Results: | Booking tool: * The booking system, supporting over 100 users world-wide, provides an easy and manageable overview of the emulator resources that are available.
* The users choose the needed system capacity for his task and then he can see where there is room/time for the task.

Estimation tool:* As emulator licenses are very expensive, the management needed to visualize the relations between the future expectations, the current booking and the actual usages of the systems.
* All projects should report its expected demand. Every month the tool generates PDF reports of expectation vs. real consumption for testing and project managers.

Automation tool:* In order to utilize the HW Emulators also for regression testing during night-time, I implemented an automated test system, using the booking system to put the test in a queue for execution in times of lower load.

All three systems are developed by me in all phases. Requirements management, specification, design, implementation, testing, release and support. |

## Nokia DK

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| 2002 - 2010  | Senior Software Engineer.  |
| Work areas: | I have had two responsibility areas at Nokia DK.Booking tool: * A complex web-based booking-system of Nokia HW emulators (6 pcs. Cadence ® Palladium ® III - 18 domains) with different test equipment connected.

L1 Performance Test System: * Responsible for specifying, designing and implementing a ”layer 1 performance“ test system to test GSM, DTM, GPRS and EGPRS, against various 3GPP standard versions.
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|  |  |
| Results: | Booking tool: * Nokia's booking system was the first version of this tool which I further developed in Renesas.

L1 Performance Test System: * An entire test system for “R&D conformance testing” against the GSM standards, consisting of a GSM Protocol Tester, I/Q fading simulator and RF interferer in a rack.
* The system could read-in different 3GPP test specifications, in XML format, and then measure whether the test phone was within the standards limits.
* The system was simple built and at a cost of 1/10 of a certified system.
* It was implemented and rolled out very quickly throughout Nokia for pre-certification of Nokia mobiles.
* I was primarily responsible for the system design, implementation and shared coding task with a colleague.
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## Ericsson A/S

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| 1996 – 2002 | Senior Software Engineer. |
| Work areas: | Telephone exchange emulators & simulators was my main responsibility area in Ericsson. This was done in an international environment with references worldwide. |
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| Results: | Guest speaker at conferences, road shows and Expo's. (Within test, simulator and emulator).Expert in Ericsson’s emulator and simulator test environment.Member of an international reference group. |

# Courses

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| Year. | Course. |
| 2010 | Windows Applications Development with Microsoft .NET 4.0 070-511.Windows Communication Foundation Development with Microsoft .NET 4.0 070-513. |
| 2009 | Microsoft .NET Framework 3.5, ASP.NET Applications Development 070-562. |
| 2008 | Microsoft .NET Framework Application Development Foundation 070-536. Comprehensive VHDL, SystemVerilog, Expert VHDL. |
| 2002 – 2007 | Microsoft Prog.With XML in the .NET framework. (Teknologisk Institut). Microsoft Core web application in Visual studio 2005. (Teknologisk Institut). Microsoft Implementing a MS SQL server 2005 Database. (Teknologisk Institut). Microsoft Project Basic. (Teknologisk Institut). Microsoft Project advanced. (Teknologisk Institut). Nokia: GSM-, GPRS-, EGPRS-standard. Project management. Project solution management. NI Test stand. NI CVI. |
| 2003 – 2007 | ITD: Database, Network and Ethernet protocols, Object Oriented Methods.Object Oriented Programing, Programing in C++, Advanced programing in Java. C#/.NET.Thesis. |

# Hardware

* Test instruments controlled by GPIB.
* HF and RF instruments.
* Digital I/Q streamer from Agilent.
* DSP processor from Analog Device.
* TV and video signals.

# Test

* Software test.
* Automation test.
* RF Test systems for GSM Layer 1 test.
* Test Instruction (TI).
* Test Specification (TS).
* Functions specification (FS).
* Simulation test.
* Emulation test.

# Language

* Danish: Native.
* English: Fluent.

Personal information:
Born 27/01-1970.
Married to Susanne, dad to 2 boys, at the ages of 17 and 14 years.

# Interests

* Active member of the working group behind the Happy Children Foundation ([GladeBørnFonden](http://www.gladeboernfonden.dk)).
* Cycling / Spinning.
* Cycled twice to Paris from Roskilde ([GladeBørnFonden](http://www.gladeboernfonden.dk)).
* Badminton.