

# CONSULTANT PROFILE

## Work experience

#382

Software developer. Year of birth 1965  
Speciality: Embedded software in C

2008 - Prevas A/S  
Prevas Freelance Consultant

2013 – 2013 Vestas  
Software developer

2013 – 2013 Servodan A/S  
Software developer

2012 – 2012 Asetek A/S  
Software developer

2012 – 2012 Grundfos  
Software developer

2010 – 2012 Vestas  
Tools update, Software developer

2005 – 2010 Infineon Technologies Denmark A/S  
Software developer, type approval tester

2004 – 2004 Embedit A/S  
Software developer

2002 – 2004 Konsucom  
Software developer

1998 – 2002 Ericsson Telebit A/S  
Software developer

1997 – 1998 Bosch Telecom A/S  
Software developer, hardware developer

1994 – 1995 Dancall Telecom A/S  
Software developer

1992 – 1994 Skovgaard & Co  
Software developer

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## Competencies

### Tools

GCC, GDB, Rational ClearCase, Various C cross-compilers, Borland C/C++, Lauterbach

### Programming languages

C, C++, Assembler, Pascal, Delphi

### Technologies

Various RTOS's, such as FreeRTOS, pSOS, Nucleus, Android and OSE, Power PC, SGold processors, Hitachi etc..

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## Education

1995 – 1997          Aalborg University

Master of Science, Electronic Engineering, Applied Signal Processing and Implementation

1988 – 1992          Aalborg University

Bachelor of Science, Electronic Engineering, Process control

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## Project references

### Vestas

September 2013 - November 2012                      Software developer  
- Maintenance of software for an older platform, V82. The task had 2 parts: first an update of the communication between processors in the control board. Secondly implementation of SW to statistical analysis to estimate lifetime on individual parts of the turbine.  
- Technologies C.

### Servodan A/S

February 2013 - May 2013                      Software developer  
- Finishing software for a newly developed lightning control sensor. The sensor was based on the MSP430 processor from TI.  
- Technologies C, MSP430, IAR workbench.

### Asetek A/S

June 2012 - October 2012                      Software developer  
- Startup on a platform to be used for monitoring a server cooling system. The platform was based on the PIC32 Ethernet Starter Kit from Microchip, a MIPS 32 bit processor and accessories.  
- Technologies C, PIC32 Ethernet Starter Kit.

### Grundfos

March 2012 - June 2012                      Software developer  
- Development software for a new pump platform, and porting code from the "Rational Rhapsody Arcitect for software platform" to more traditional C.  
- Technologies C, Rational Rhapsody Arcitect for software platform.

### Vestas

June 2011 - February 2012                      Software developer  
- Maintenance of software for an older platform, V82. Various updates and error corrections, the biggest task was an update to allow the generator to output a higher maximum power level. It included update to the power control, adding sensors and new menus, etc.  
- Technologies C.

### Vestas

August 2010 - January 2011                      Software developer  
- Responsible for Converting older tool sets of data to newer version, so even older software platforms may use the same tool kit as the newer SW, and thus ensure that all platforms use the same. Adapting the platform SW to the new tool set.  
- Technologies Configt, Pooma, C.

### Infineon Technologies Denmark A/S

September 2009 - June 2010                      Software developer  
Infineon is a big German company which develops and produces microchips and the role of the Danish company is as a part of the COM division to support development and sale of chips for mobile phones, the SGOLD chipsets. The company has a platform which is a fully functional mobile phone and it was partly developed and supported from Denmark.  
- Responsible for developing and supporting the audio driver on the Infineon platform and support of customer products with respect to the same driver and general sound of their products.  
- Technologies C, peripheral audio processors, RTOS, Lauterbach, Android

## **Infineon Technologies Denmark A/S**

May 2009 - July 2009

Type approval tester

- Responsible for supporting customers in getting their product through type approval. This includes optimizing and error debugging on the customer product (mobile phone) and test systems and regression test on software releases.
- Technologies GMS, Rohde&Schwarz test equipment.

## **Infineon Technologies Denmark A/S**

May 2007 - September 2008

Type approval tester

- Responsible for supporting customers in getting their product through type approval. This includes optimizing and error debugging on the customer product (mobile phone) and test systems and regression test on software releases.
- Technologies UMTS, Rohde&Schwarz test equipment, C, Lauterbach.

## **Infineon Technologies Denmark A/S**

May 2007 - September 2008

Type approval tester

Infineon is a big German company which develops and produces microchips and the role of the Danish company is as a part of the COM division to support development and sale of chips for mobile phones, the SGOLD chipsets. The company has a platform which is a fully functional mobile phone and it was partly developed and supported from Denmark.

- Responsible for supporting customers in getting their product through type approval. This includes optimizing and error debugging on the customer product (mobile phone) and test systems and regression test on software releases.
- Technologies UMTS, Rohde&Schwarz test equipment, C, Lauterbach.

## **Infineon Technologies Denmark A/S**

August 2006 - April 2007

Software developer

- Responsible for specifying and implementing a calibration tool to could calibrate mobile phones.
- Technologies C++, UMTS.

## **Infineon Technologies Denmark A/S**

January 2006 - July 2006

Customer support

External assignment at customer in Seoul, Korea.

- Responsible for supporting low level software in customer phones with primary focus on audio drivers. This included review of customer design, test and debugging.
- Technologies C, UMTS, GSM, RTOS, Lauterbach

## **Infineon Technologies Denmark A/S**

January 2005 - December 2005

Software developer

- Responsible for developing and supporting the audio driver on the Infineon platform and support of customer products with respect to the same driver and general sound of their products.
- Technologies C, peripheral audio processors, e.g. Yamaha MA3, RTOS

## **Embedit A/S**

April 2004 - November 2004

Software developer

Embedit A/S was a consultant company specialised in embedded software.

- Responsible for debugging and implementing customer specific communication drivers.

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- Technologies C, various peripheral processors, RTOS.

## **Konsucom, Daltec**

October 2002 - April 2004 Software developer

Working as independent consultant with Daltec.

- Responsible for specifying and implementing software to control an automated system for feeding pigs.

- Technologies C, Hitachi processor, RTOS.

## **Ericsson Telebit A/S**

October 2000 - September 2002 Software developer

Telebit had a fully functional IPv6 router and Ericsson bought the company to acquire know-how on the IPv6 (the new internet protocol) with the intent to implement this technology into their mobile network systems, reusing the existing Ericsson platform. Consequently a lot of software had to be ported to the new platform.

- Responsible for porting various communication drivers, such as Ethernet on an external interface and ATM used internally.

- Technologies C, Ethernet, ATM, RTOS

## **Ericsson Telebit A/S**

July 1999 - September 2000 Software developer

- Responsible for porting the IPv6 stack to run on the real time system used by Ericsson, OSE from Enea. This was done by implementing a link layer emulating the existing functionality by using OSE functions.

- Technologies C, RTOS (OSE from Enea), Lauterbach

## **Ericsson Telebit A/S**

December 1998 - June 1999 Software developer

- Responsible for various low level software development, e.g. implementing a temperature control mechanism in assembler, and some test functions. Also a profiler was built into the existing real time kernel.

- Technologies C, RTOS, Lauterbach.

## **Bosch Telecom A/S**

February 1998 - November 1998 Hardware developer

- Responsible for developing audio hardware in a GSM mobile phone. This included making sure the phone has an acceptable performance when receiving speech, making sure the alarms are loud enough and in general making sure the phone could pass type approval. It also included reviews of analogue and digital designs with a special focus on EMC.

## **Bosch Telecom A/S**

July 1997 - January 1998 Software developer

- Responsible for making production test software written in Delphi, an object oriented version of Pascal.

- Technologies Delphi

## **Dancall Telecom A/S**

February 1994 - September 1995 Software developer

- Responsible for making production test software written in Pascal. Main responsibility acoustic tests of cordless phones and functional tests of print boards.

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- Technologies Pascal.

## **Skovgaard & Co A/S**

January 1992 - January 1994

Software developer

- Responsible for specifying and implementing software to control an industrial production machine. As a secondary task machines were set up at customer sites.

- Technologies C, RTOS.

## **Other**

Peripheral processors, CVS, Oscilloscopes and other test equipment.

## **Languages**

Danish, mother tongue. English, fluently. German, vocal only

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## Education (continued)

EMC course, Keld Skov and Søren Halling

Lauterbach T32 - ICD Modul 1+2 by Nohau Danmark A/S

UMTS Air interface by Awaves