

## Credit Göran Berntsson

Last updated 2012-09-15

### Summary

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After a few years at Chalmers where I trained as a Master of Science in Engineering Physics and Computer Science and then taught automatic control system.

I have worked with software and systems development for more than 30 years, including 9 years at AB Volvo Penta and subsequent years as a consultant at Frontec and Centaur.

Since 2004 I run my own company berntCon AB.

My special expertise is system development and I see each project as a new challenge.

I like to model the projects in UML and program in C++ and LabVIEW.

The assignments have ranged from test rigs to embedded systems as well as Windows programming in C#.

I am used to running projects and acting as project manager.

Takes care of the entire development chain from specification to start-up of development environments with version control as well as programming, modeling, documentation and commissioning for the end customer.

I write hardware drivers and communication protocols when needed. Have written drivers for CAN as well as file systems and schedulers. Developed my own control system library.

Through my company I have development licenses for IAR ARM C++ as well as embOS,, from SEGGER, operating system and Enterprise Architect UML tool.

berntCon AB has cooperation agreements with Microsoft and access to Microsoft development products.

Born: 1960

Marital status: Cohabiting with Anette.

Children Oscar and Jonas

Place of residence: Gothenburg

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berntCon AB

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# berntCon AB

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Driving license: B Passenger car

## Skills

### Project management and working methodology

- UML

### Tools/Methodology/Technology

- Enterprise Architect
- IAR C++, embOS
- Visual Studio
- Labview
- Control System Theory

### Roles, products/systems and customers

- Solely responsible for the software to a self-generating partickle filter for IPP.
- Project manager for development of test rig for SAAB.

### Employment

- 2004 berntCon AB own company.
- 1998 Centaur Design AB
- 1995 Frontec Consultants Göteborg AB
- 1986 AB VOLVO PENTA

### Training

#### Academic

- Master of Science in Engineering Physics and Computer Science, CTH Göteborg

#### Language

- Swedish - mother tongue
- English - very good

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## Completed assignments:

2017,20 2020 berntCon AB Alelion Batteries AB	Specification and test of Lithium John Batteries. Development of test rigs. LabVIEW,CANopen
2015,2017 berntCon AB Specificate-Innovation AB Alelion Batteries AB	Specification and test of Lithium John Batteries. Development of test rigs. LabVIEW,CANopen
2014,2015 berntCon AB Åf EVS Inmotion Technologies AB	Testing of hybridengine against OEM supplier. CAPL Vector Canoe.. J1939, CANopen,VERISURE
2014 berntCon AB TECHMIND	LIN Slave prototype C++,FreeRTOS
2013,2014 berntCon AB Åf Gtt Volvo Trucks AB	Software Design Architect for Chassis TEA2+
2012,2013 berntCon AB QRTECH AB KONGSBERG AUTOMOTIVE	Development project control system gear levers. Performed programming/testing in C. Updated documentation according to KONGSBERG AUTOMOTIVE standard.
2010,2011,2012 berntCon AB QRTECH AB Volvo Trucks AB	Maintenance projects for VECU and NICU Volvo 3P ECU. Performed programming/testing in C, Python and LabVIEW. Updated documentation according to Volvo standard. MISRA, CAPL/CANOE
2010 berntCon AB NIRANOVA AB	Tasking C, Diesel Engine Control, Modbus Developed an RS485 Modbus slave for SCADA applications. The protocol enables the customer's engine controls to be used for electrical generation.
2009,2010 berntCon AB	Programming in Visual C++ application Dialysis machine.

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Gambro AB	PrismaFlex dialysis machine presents a large amount of information in 27 languages. The mission was to cross-reference information for language validation.
2009 berntCon AB	Development with UML, C++, IAR Power Pac, internal product development. Development of berntConControl a UML based development package for product prototyping. The product is offered to customers as a start for product development.
2008 berntCon AB Epsilon AB CPAC AB	Programming in IAR C, processor STM32. Programming Linux application with gcc C++. Programming the ARM Cortex help processor in a Linux based display.
2007,2008 berntCon AB IPP AB	Development with UML, C++, IAR Power Pac. Solely responsible for developing the software into a self-regenerating particle filter. The development work was carried out together with, among other things, Endeavor Engineering AB.
2007 berntCon AB Epsilon AB Gambro AB	Assignment at Gambro, C++, VxWorks,Dialysis,DOORS Worked with testing of PrismaFlex dialysis machine.
2006 berntCon AB OPUS PRODOX AB	Agreement with OPUS Development on microchip PIC processor application included Radio LAN with development language C. The application was a "Fleet management" system. Also, some Java programming on car diagnostic tool Vehicle Spy 3 was performed. Documented and further developed a product for driving journal management.
2006 berntCon AB Epsilon AB OBDUCAT AB	Agreement with Epsilon Mission at Obducat.. Development on QNX operating system with gcc C++. The ImageMagicklibrary for image analysis was used. Some LabVIEW development was performed.

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The assignment includes machine control and Realtime image analysis  
Further developed positioning systems for Obducat's machines.

2006  
berntCon AB  
TorLab  
Trucks AB

Agreement with TorLab.  
Porting Morphee engine testing from Volvo Technical Development to engine test bed at Volvo Trucks.

2005  
berntCon AB  
Eurotherm AB  
Sandvik AB

The mission was to port a VB6 application from access database to SQL server.  
The application was a so-called traceability package that logs information from process control systems.  
A C#ADO .NET web client was also developed.

2004  
berntCon AB  
Eurotherm AB  
Thermo

Development in Eurotherm's environment.  
Control system for a medical Vacuum freezer dryer.

2003  
Centaur AB  
Eurotherm AB  
Swedish Composite  
Development AB

Development in eurotherm's environment.  
Development of control systems for Furnace, Autoclave and press control for composite production.

2003  
Centaur AB

Marketing and development of customer relations.

2003  
Centaur AB  
SCANIA Södertälje

Development of a portable test system for cooling systems in LabVIEW that supported, among other things, CAN J1939.

2002  
Centaur AB

Marketing and development of customer relations.

2002  
Centaur AB  
Kvaser AB

Development of LabVIEW CAN driver for Kvaser CAN card.

2001,2002  
Centaur AB

Siemens PLC System 7 to an oil pump test rig.  
Design and automation of test rigs for production tests.

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Giesen N.V. Belgium

1999,2001  
Centaur AB  
SAAB Automobile AB

LabVIEW environment, MS Visual C++, Web interface, TCP/IP.  
Design and automation of test rig for doors, windows with analysis, design, implementation of interfaces on the internet.

1999  
Centaur AB  
Enator AB  
Ericsson AB

Development In ATM environment, MS Visual C++, Rational Rose, UML, Unix, VxWorks.  
Construction of RNC Simulator to Japan with analysis, design, implementation of systems for future mobile phone systems.  
The assignment involved analysis, design, implementation and testing.

1996,1997,1998  
Frontec AB  
Volvo Cars AB

Windows95, MS Visual C++, Rational Rose 3.0.  
Construction of VCT2000 a tool used for communication with Volvo's EUs.  
Analysis, design, implementation of systems for measuring data signals (CAN-bus, K-line bus) in car.  
Analysis, design, implementation and testing.

1995,1996  
Frontec AB  
Volvo Cars AB

Participated in the project VEC which was an engine control system developed internally on PV.

1995  
Frontec AB  
Astra Hässle

Adapt drivers to tablet packaging label printers.  
Development environment Visual C++.

1990-1995  
Volvo Penta AB

Responsible for the development of computer systems for engine testing.  
The system was based on Eurotherm's control system and superbase database.  
Responsible for leading and management of consultants and suppliers.

1986-1990  
Volvo Penta AB

Development project on electrical design.  
68010/68030 based card computer systems with Realtime system OS-9, C.  
Measuring instruments for mechanical fatigue of transmissions.  
Control system for boat control of type "Fly by wire".

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The PC is also used as a cross environment for Microcontrolls and documentation.

Siemens 80535 controls, programming with IAR C with LCD.

Hitachi 4-bit Microcontroller with the programming in Assembler.

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