

FREDRIK ENGSTRÖM

Gothenburg, Sweden

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PROFILE

Embedded Systems Engineer with 8 years experience of hardware and software engineering. The experience includes electronics design, diagnostics and start-up of prototypes, development of high-level and low-level embedded software as well as Windows applications.

Proven problem solving skills and power of initiative.

EXPERTISE

- **Embedded systems**
 - Development of complete systems; device drivers, applications and hardware design.
- **Software development**
 - Specifications and system design, documentation, software release planning.
 - Development of Windows applications for interfacing embedded software.
 - Programming languages: C/C++/C#, Assembler, VHDL.
- **Technologies**
 - Microcontrollers: 8051, HC08/12, AT91SAM7S, LPC2000.
 - Communication: CAN, SPI, RS232, TCP/IP, proprietary protocols and parsers.
 - Fields of application: Distributed systems, M2M-systems (GPRS), Automotive temperature control systems, Mobile phones.

WORK EXPERIENCE

2006 – present

Embedded Systems Consultant

Volvo 3P, Gothenburg

- Technical Leader support and system investigations.

Saab Microwave Systems, Gothenburg

- Design of power electronics. Specifications, design, verification.

Ericsson Mobile Platforms, Lund

- Integration of customized and generic software modules.
- Customization of the generic EMP mobile phone platform for customers.
- Handled error reports and change requests from customers on platform functionality.

2003 – 2006

Embedded Systems Engineer

Gothenburg, Sweden.

- Functioned as Principal Embedded Software Engineer being ultimately responsible for overall design and functionality of embedded software projects.
- Have successfully applied power of initiative to complete a large project due to key project members leaving the company.

TOOLS

- **Hardware**
 - iSYSTEM On-chip debuggers and in-circuit emulators
 - Logic analyzers and oscilloscopes
- **Software**
 - iSYSTEM WinIDEA
 - Eclipse, MS Visual Studio 6.0/.NET 2003
 - GNU ARM toolchain, CrossWorks, IAR
 - COSMIC compilers for HC08/HC12
 - ClearCase, Subversion, SourceSafe
- **CAD**
 - OrCAD 9.2 Capture and Layout, Cadence HDL, gEDA
- **Simulation**
 - OrCAD 9.2 PSpice
- **FPGA/CPLD**
 - XILINX Foundation Series and WebPack

EDUCATION

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|-------------|--|
| 1997 – 2001 | M.Sc. in Applied Physics and Electrical Engineering
<i>Linköping University, Sweden.</i>
Majored in Electronics systems |
| 1995 – 1997 | B.Sc. in Electrical Engineering
<i>Linköping University, Sweden</i>
Cut it short to pursue a degree in M.Sc.EE |
| 1995 | Military service
Mandatory drilling in the Swedish Armed Forces |

TRAINING COURSES

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|------|---|
| 2007 | VHDL
<i>RealFast, Västerås, Sweden</i> |
| 2003 | Electronic measurement systems
<i>Chalmers University of Technology, Gothenburg, Sweden</i> |

LANGUAGES

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|-----------|---|
| Swedish | Native |
| English | Fluent - written and spoken |
| Listening | Have always been perceived as open minded and as a good listener, independent of language |

PERSONAL DETAILS

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| Year of birth: | 1975 |
| Driving licence: | Swedish (full, clean) |
| PPL: | 1994 (Private Pilot License) |