Hannu Hirvonen

Role: **C/C++ Developer + Embedded + Relatime operation systems**
Birth year: **1968**
Location: **Lohja/FI**
Description: I have strong background from Embedded and Realtime operation systems. Beneficial things is also knowledge of very well working processes from one of the biggest Telecom sector company. Like to learn more from Embedded and HW related systems and be a part of excellent development team individually and part of agile team.

Languages

Language	Level
English	Fluent
Finnish	Native

Methods, Tools and Technology Skills

Beginner = no experience at all

Junior = has basic knowledge

Professional = can be considered as professional

Mentor = professional who has more experience and deeper understanding

Specialist = can be considered as specialist

Architect = superior skills

Name	Level	Experience	Total
Software Development Methods	Specialist	2004 - 2010	7 year(s)
C++	Specialist	2004 - 2010	6 year(s)
C/C++	Specialist	2004 - 2010	6 year(s)
Debuggers	Professional	2004 - 2010	5 year(s)
Dimensions	Professional	2004 - 2010	5 year(s)
Embedded C	Specialist	1995 - 2010	5 year(s)
Embedded Systems	Specialist	2004 - 2010	5 year(s)
OSE RTOS	Professional	2004 - 2010	5 year(s)
Testimäärittely	Professional	2004 - 2010	4 year(s)
C	Professional	1995 - 1997	3 year(s)
Testaus	Professional	2004 - 2010	2 year(s)
UDP Socket	Professional	2004 - 2010	2 year(s)
Windows 8	Junior	2011 - 2012	2 year(s)
Continuus/CM Synergy	Mentor	2002 - 2004	6 month(s)
Windows 7	Professional	2011 - 2012	6 month(s)

.NET	Mentor	2011 - 2012	3 month(s)
C-ohjelmointi	Professional		
C language	Beginner		
Linux	Beginner		
OSE	Beginner		
Embedded C	Beginner		
Embedded Operating Systems	Beginner		
CM Synergy	Beginner		
Git	Beginner		
Tortoise SVN	Beginner		
RTOS	Beginner		
Software Development	Beginner		
Module testing	Beginner		
Realtime Operating Systems	Beginner		
Hardware related programming	Beginner		
C++	Specialist		

Industry experience

Senior Software Engineer	08/2004 - 03/2010	Senior Software Developer in customer project. Main tasks were planing, coding, module testing in OSE realtime operation system. Language was C++ and processor PowerPC.
Embedded C	05/1995 - 02/2004	Different kind of C projects.

Certifications

ISTQB	ISTQB certificate	05/2011
Certifie Scrumd Master	Certified Scrum Master	05/2009

Education

08/1988 - 05/1993	**Degree:** B.Sc. (Eng) - computer sciences	**Institute:** Kuopion Teknillinen Oppilaitos
	Studies: Computer Sciences	
12/1987 - 12/1992	**Degree:** Bachelor of Science (B.Sc.)	**Institute:** Technical Polytechnic of Kuopio
	Studies: Computer Technology/Computer Systems Technology	
12/1985 - 12/1986	**Degree:** Computer Mechanic	**Institute:** Vocational School of Joensuu
	Studies:	
12/1983 -	**Degree:** Electronics Serviceman	**Institute:** Vocational School of Joensuu

12/1985	**Studies:**

Project Experience

Project name	**Senior Software Developer**
Customer	Tieto Finland
Period	30.6.2008 -
Description	C++ programming in OSE Realtime operating system. Participating also to test automation improvement work in Windows 7 operating system.
Roles	-
Skills	
Project name	**WinSEE testing**
Customer	Nokia
Period	1.1.2011 - 30.11.2012
Description	Windows Phone tools is collected to one package and I was a main tester. Platform is Windows 7 or Windows 8. Part of tests have to do manually, but part is automated.
Roles	System test engineer - Main role is testing package before delivering it to end users.
Skills	Windows 8, Windows 7, .NET
Project name	**Software Development in Telecom area**
Customer	Nokia Siemens Networks / Nokia Siemens Networks
Period	1.8.2004 - 31.3.2010
Description	Confidential C/C++ programming work in customer's very challenging mutlicultural Telecom environment. Main work wsa defining and coding against the standads and functional descriptions.
Roles	Software Developer - SW development roles both in developing and maintenance phases.
Skills	Embedded Systems, Software Development Methods, C/C++, Dimensions, OSE RTOS, UDP Socket
Project name	**FlexiBTS**
Customer	NSN
Period	1.8.2004 - 28.2.2010
Description	**Description of project:** Design and Implementation of FlexiBTS Transport and User Plane protocol **Professional Skills:** SW design, implementation, module testing and maintenance

	Methods and technologies: C++, OSE RTOS, TCP/IP UDP **Tools :** Windows XP, Dimensions, Diab
Roles	Senior Software Developer - Description of project: Design and Implementation of FlexiBTS Transport and User Plane protocol Professional Skills: SW design, implementation, module testing and maintenance Methods and technologies: C++, OSE RTOS, TCP/IP UDP Tools : Windows XP, Dimensions, Diab
Skills	Debuggers, Embedded C, C++, Testaus, Testimäärittely
Project name	**Senior Software Developer**
Customer	Sesca Oy
Period	31.12.2007 - 30.6.2008
Description	C++ programming in OSE Realtime operating system.
Roles	-
Skills	
Project name	**Software Developer**
Customer	Elektrobit Oy
Period	28.2.2002 - 30.11.2007
Description	C++ programming in OSE Realtime operating system. Build Manager in DSP project.
Roles	-
Skills	
Project name	**DSP Build Manager**
Customer	Nokia NMP Salo
Period	1.3.2002 - 29.2.2004
Description	Build Manager in DSP project in first WCDMA symbian phone. Project was multisite and multicultural project in 4 different sites. Role was build DSP software packages and version controlling using Continuus/CM Synergy version control system.
Roles	Build manager - Responsible for building WCDMA DSP SW packages in multisite and multicultural environment.
Skills	Continuus/CM Synergy
Project name	**Software Developer**
Customer	Caldinari Oy
Period	30.4.1998 - 31.1.2002
Description	C++ programming in pSOSystem Realtime operating system.
Roles	-
Skills	

Project name	**Wheel Chair Ergometer**
Customer	Meslab Oy
Period	1.5.1995 - 20.10.1997
Description	**Description of project:** Design and implementation of Wheel Chair Ergometer and VisiScreen scrolling advertisement element **Professional Skills:** Knowledge of Intel 196-microcontrollers, RS-232/485 communication, Real Time and Embedded SW Development
Roles	Ohjelmoija - C-ohjelmoija
Skills	Embedded C, C
Project name	**Software Developer**
Customer	Meslab Oy
Period	31.7.1996 - 30.9.1997
Description	C programming in embedded microcontroller environment.
Roles	-
Skills	
Project name	**Software Developer**
Customer	University of Kuopio
Period	30.11.1995 - 30.6.1996
Description	C programming in embedded microcontroller environment. Defining, planing, implementing, testing and maintenance work.
Roles	Software Developer - C programmer
Skills	C

Employment History

Tieto Finland	
30.6.2008 -	
Tieto Finland Oy	**System test engineer**
1.1.2011 - 30.11.2012	• Main role is testing package before delivering it to end users.
Elektrobit, Sesca, Tieto	**Software Developer/C and C++ developer**

1.8.2004 - 31.3.2010	• SW development roles both in developing and maintenance phases. • Developing in HW related RTOS environment.
Tieto Finland Oy	**Senior Software Developer**
1.8.2004 - 28.2.2010	• Description of project: Design and Implementation of FlexiBTS Transport and User Plane protocol Professional Skills: SW design, implementation, module testing and maintenance Methods and technologies: C++, OSE RTOS, TCP/IP UDP Tools : Windows XP, Dimensions, Diab
Sesca Oy	
31.12.2007 - 30.6.2008	
Elektrobit Oy	**Build manager**
28.2.2002 - 30.11.2007	• Responsible for building WCDMA DSP SW packages in multisite and multicultural environment.
Caldinari Oy	
30.4.1998 - 31.1.2002	
Meslab Oy	**Ohjelmoija**
1.5.1995 - 20.10.1997	• C-ohjelmoija
University of Kuopio	**Software Developer**
30.11.1995 - 30.6.1996	• C programmer

References

Name	Title/Company	Contact Information	Comment
Mikko Harila	Senior Design Engineer/NSN	0504860360 / mikko.harila@gmail.com	Mikko is my old colleague
Petri Kaasinen	Project Manager/Nextrom Oy	+358 50 62375 / petri.kaasinen@nextrom.com	Project Manager in project where I was participating over 5.5 years

Hobbies

C++ programming, Embedded SW development, KNX, RTOS, Realtime operating system, Python, Perl, C programming, Linux Ubuntu, Software Development, Hardware related programming, Test automation, Python, Perl