

# Knowledge Resources at Ardy Electronics AB Sweden



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Revision history

<b>Date</b>	<b>Name</b>	<b>Description</b>
2010-01-15	DH	Resources

## **Ardy Electronics AB**

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### **Development Capability:**

#### **Electronic design:**

- High speed analogue and digital circuit design.
- Programmable logic design with PLD's, CPLD's and FPGA's.
- DSP design with Texas Instruments TMS320-family.
- Good knowledge of embedded processors such as Freescale 68HC11/HC16, Rensas H8-family, x86, different 80C31 variants, different AVR variants, and different ARM-processors (ARM7 and ARM9 from ST/Atmel).
- Good knowledge of interfaces such as I2C,CAN, RS232, RS485, USB and different bus technologies.
- PCB layout, design for manufacture and EMC compliance knowledge. Good knowledge in using PCB layout tools such as Ultimate/Ultiboard (National Instruments), Pulsonix and Cadstar.
- Hardware and software encryption technology, Diffel Hellam, RSA, 3-DEC, Blowfish, twofish, AES, Proprietary algorithms, and authentication methods.

#### **Embedded programming:**

- Assembler for HC11/HC16, H8, x86, 80C31, AVR and ARM.
- C/C++ using tools such as IAR Embedded Workbench, Keil uVision, Rowley Crossworks and ARM Workbench (RealView).
- PLD/CPLD/FPGA programming using tools from ST,Atmel and Xilinx.
- Knowledge about RTOS's such as Nucleos RTOS and uC/OS-II.

#### **Programming, other:**

- Programming for Microsoft Windows using tools such as Visual Studio C/C++ and C#, Delphi/Pascal and assembler.
- Microsoft Windows Driver development, both user-mode drivers and kernel-mode drivers.
- Windows ASP .NET programming.
- Script programming using Perl.
- Creating Windows Installations using tools such as Visual Studio, InstallShield and Nullsoft Scriptable Install system.
- Java SE/ME programming using tools such as Eclipse and Netbeans.
- Smartcard-programming for Java and Multos Smartcards.

#### **Databases**

Good knowledge about databases such as:

- MySQL
- Microsoft SQL Server
- Interbase/Firebird
- PostgreSQL
- Microsoft Access

**Web-development:**

Big experience in web development using:

- PHP
- HTML, XHTML, DHTML
- Javascript
- CSS
- AJAX
- XML, XSL
- JQuery
- SEO - Search Engine Optimizing
- WAP
- Joomla

**Linux**

Good experience on using and configuration of:

- Postfix
- SpamAssassin
- Squid Web Proxy
- Apache
- Webhosting
- Bash scripting
- C/C++ development for Linux

**Tools/IDE's usage:**

In our development we use and have experience of tools/programs such as:

- Microsoft Visual Studio C/C++/C#
- Netbeans
- Eclipse Java/C++
- Adobe Photoshop
- Adobe Flash
- Adobe Dreamweaver
- Microsoft Biztalk Server
- Microsoft Active Directory
- Microsoft IIS
- Microsoft Visual Basic
- Microsoft Windows Server 2003 / 2008
- Microsoft Exchange
- Delphi 7/2006/2010
- IAR Embedded Workbench
- Rowley Crossworks for ARM
- Keil uVision 3
- AVR Studio
- Subversion / CVS

**Other areas of expertise:**

- Domain management (DNS) and registration
- SMS solutions
- Android programming
- Server solutions (Windows and Linux)
- Network solutions
- Cisco firewall configuration and management
- Backup solutions
- Storage solutions (SAN, NAS)
- Cloud computing
- Virtualization using VMWare and VirtualBox
- E-commerce
- Card payment solutions

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