

# Curriculum Vitae

30/11/2019

Name: Howerd Paul Oakford  
Born: 28.10.1954 in Lowestoft, UK  
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## Education

09/1965 – 08/1972 **Lowestoft Grammar School**, Lowestoft, UK. A-levels in Physics, Chemistry, Applied Maths, Pure Maths.  
09/1973 – 08/1976 **Trinity College, Oxford University**, MA(Oxon) in Physics, specialising in Nuclear Physics and Electronics.  
01/1986 **Advanced polyForth course**, Forth, Inc. Los Angeles, USA

## Work Experience

Please click here for more details : <http://www.inventio.co.uk/HowerdOakfordCV.pdf>

07/2019 - ESE GmbH/ Siemens Mobility (Eclipse, ARM, Linux, Java/jUnit)  
Developing an ARM, iMX6 and Altera FPGA based dual redundant train safety system.

08/2018 – 07/2019 ESE GmbH/ Siemens Cargo (Eclipse, Visual St., AVR, ARM,PC)  
Project control of the Wireless Sensor Network (CTwsn), LOEP controller board (ST ARM, SIL2 dual redundant) and LOEP Configuration Tool ( C# ) system.

01/2017 – 06/2018 Brunel GmbH/ Siemens AG (Ubuntu Linux, ARM, Nios2 )  
Developing an ARM and Altera FPGA based dual redundant train safety system.

09/2016 – 01/2017 Slock.it UG (Ubuntu Linux, ARM )  
Compiling Go and Geth (Go ETHereum) client.

08/2016 – 09/2016 Sinar Technology Ltd ( BLE Hardware development)  
Development of Bluetooth Low Energy (BLE) / LoRa serial link.

06/2016 – 07/2016 Xecnet, SW developer (Ubuntu Linux)  
Proposal for Distributed Autonomous Organisation ( DAO ) on the Ethereum Blockchain system.

02/2016 – 05/2016 EDMI Limited, Smart Meter SW developer (ARM)

06/2015 – 01/2016 Hanover Displays Ltd, embedded SW developer (ARM)  
Development of Electronic Route Indication Controller ( ERIC ), an information display controller for transport systems.

07/2014 – 03/2015	Landis & Gyr /Toshiba, Smart Meter SW developer (ARM)
05/2012 – 10/2013	Suss Microtec AG (München), embedded SW developer (ARM)
12/2011 – 04/2012	NXP Semiconductors GmbH (Hamburg), Smart Card dev.
03/2011 – 11/2011	Itron Metering Solutions UK Ltd, Smart Meter SW dev. (ARM)
08/2010 – 02/2011	Infineon Technologies AG (Graz, Österreich), Smart Card dev.
03/2010 – 05/2010	Markem-Image Ltd, embedded SW developer (Infineon XC161)
07/2008 – 02/2010	Eltel Ltd, HW & SW developer (TI MSP430)
05/2008 – 07/2008	Westweigh Ltd, embedded SW developer (8051)
09/2007 – 04/2008	Renesas (UK) Ltd, embedded SW developer (Renesas SH7254x)
10/2005 – 06/2006	Metric Group Ltd, embedded SW developer (ARM)
07/2004 – 05/2005	Marconi Selenia Secure Systems, embedded SW dev. (8086)
02/2003 – 04/2004	Alaris Medical, embedded SW developer (ARM)
10/2001 – 03/2002	Matsushita Mobile / Panasonic, embedded SW dev. (ARM)
08/2001 – 10/2001	De La Rue Cash Systems, embedded SW dev. (68000)
07/2000 – 06/2001	Matsushita Mobile / Panasonic, SW dev (TCP/IP)
seit 07/2000	<b>Computer Consultant, Inventio Software Ltd</b> , United Kingdom
09/1998 – 10/1998	Racal Radio Ltd, embedded SW developer (UDP/IP)
10/1994 – 12/1995	EMV / MicroProcessor Eng., embedded SW dev. (V25/80186)
10/1994 – 12/1995	Philips / MicroProcessor Eng., embedded SW dev. (68000)
10/1985 – 03/1986	Forth, Inc. / Avco Inc (USA), embedded SW dev. (80x86)
10/1982 – 10/1983	Broner/Protos, embedded SW/HW dev. ( 8051)
10/1981 -- *	JBC Systems/Westweigh, embedded SW/HW dev. ( 8051)
10/1981 – *	Sinar Technology Ltd, embedded SW/HW dev. ( CDP1802, 8051)
10/1981 – 06/2007	<b>Computer Consultant</b> , United Kingdom
05/1979 – 09/1981	<b>Software/hardware developer</b> , Rofin Ltd / Sinar Technology Ltd
11/1977 – 04/1979	<b>Test Engineer</b> , Computer Electronics Ltd, Saffron Walden, UK

Note \* still supporting these companies.

## Other Skills

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Languages:	English – mother tongue German – „moderately good“
Software:	Specialised in embedded software : Assembler, C/C++, C#, Forth, Javascript, PHP, Python. Cryptography and secure communications, protocols. MS Windows/Office, Linux ( Ubuntu, Debian )
Other:	UK/Euro Driving License
Hobbies:	Piano/keyboard, guitar, walking/cycling, Forth.

## Non-UK Contracts

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08/2018 – present	E.S.E GmbH (Braunschweig), SW developer (ARM, iMX6, AVR)
01/2017 – 07/2018	Brunel GmbH (Braunschweig), SW developer (ARM)
10/2016 – 01/2017	Slock.it UG (Mittweide), SW developer (ARM)
05/2012 – 10/2013	Suss Microtec AG (München), embedded SW developer (ARM)
12/2011 – 04/2012	NXP Semiconductors GmbH (Hamburg), Smart Card dev.
08/2010 – 02/2011	Infineon Technologies AG (Graz, Österreich), Smart Card dev.
10/1985 – 03/1986	Forth, Inc. / Avco Inc (Alabama, USA), embedded SW dev.