

CURRICULUM VITAE

Timothy Paul Jarvis BSc CEng MIET MIEEE
Chartered Engineer

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OF

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KEY EXPERTISE SUMMARY

Radio Frequency Design
Design for EMC Compliance
RF & EMC Troubleshooting
Small Business Management

Analogue Electronics Design
Digital Signal Processing (DSP)
Antenna Design
Project Leadership and Technical Management

1 GENERAL INTRODUCTION

I am forty-seven years old, remarried with six children, five grown up and one still at school. I was born in central Birmingham in August 1961. I grew up on a farm in rural Somerset. I obtained my bachelors degree at the University of Hull, graduating in 1983.

I have worked in the electronics industry for twenty five years. I am member of the IET and IEEE and a chartered engineer.

During my career I have resisted pressure to migrate from engineering to a purely management role and operate best either as a team leader or solo engineer. Currently I am an independent Radio and EMC engineer having founded my company RadioCAD (www.radiocad.com) nearly eight years ago. I recently started a new venture, Powersol Ltd with a colleague Darren Wilkinson.

In the first five years of my career I was an RF and analogue electronics engineer working on various sonar systems. As these analogue systems migrated to DSP in the late eighties so I migrated to high-speed computer design and thereby the telecommunications industry. From there I became an embedded 'C' programmer writing protocol stacks and other code for radio-telecomms systems. In 1997, following the failure of my first company J.E.T, I needed a change of direction. I brushed up my RF skills at Bradford University (part MSc course) and returned to my first love, RF. Now I refuse to entertain software development and find contentment developing radio modules, tuners, etc. and troubleshooting other people's radio and EMC problems.

I have a sideline interest in cryptography. Other hobbies include: poetry, music, motorcycling (especially vintage motor cycles), swimming, running, climbing. I play piano and sing. I am a dedicated Christian and the worship leader at my local church.

In 1977 I was a finalist of the "Young Engineer of Britain" at the age of 16.

2 EDUCATIONAL SUMMARY

School qualifications: 9 Ordinary Level passes.
 3 Advanced level passes.
 Churchill Comprehensive, AVON. 1972→1979.

University qualifications: BSc (hons) Electronic Engineering.
 The University of Hull. 1979→1983

3 CONTINUING PROFESSIONAL DEVELOPMENT

- 3.1** RF Design and CAD Techniques. Part of the RF MSc course at University of Bradford, June 1998.
- 3.2** EMC Directive TCF Route to Compliance. Assesment Services. April 1996.
- 3.3** Author of "Designing for EMC" a one-day training course.

I took over the development group within KTL and built the two man team up to a full compliment of five engineers and one project manager. Initially the team concentrated on developing test instruments for the internal use of the four KTL test laboratories Worldwide. It then moved into consulting on design issues for KTL's clients and under my direction into direct sub-contract electronics product design. Three major contracts were executed: (i) development of a DVB de-modulator receiver for a major set-top box manufacturer, (ii) development of a CT0 cordless telephone for a far-eastern client, (iii) development of a PMR446 two-way radio for manufacture in Southern China.

Following its flotation on the London Stock Exchange Kingston Communications (Hull) plc took a strategic decision to dispose of KTL. The overseas laboratories were sold off and the Hull operation was scaled down. This 'restructuring' lead to the developing group being disbanded.

5.2	Midland Mobile Radio Temple Normanton Business Park Chesterfield S41 0JS	Research and Development Manager Apr 1997 to March 1999
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I was brought in to set up and operate the R&D department responsible for developing fixed radio infrastructure and mobile radios, two-way, push-to-talk and trunked. Over two years my four man team developed a 400 MHz MPT1327 trunked hand-portable and completed the initial development work on a MPT1327 site controller.

I personally executed all the electronics design, both digital, analogue and RF. I also executed some of the embedded 'C' software development.

As far as I am aware Midland Mobile Radio has now effectively ceased trading.

5.3	J.E.T. limited 8 Roper Street "Quaywest" Hull HU1 2PZ	Director Dec 1989 to Feb 1997
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I founded Jarvis Engineering as a sole trader and then incorporated under the name Jarvis Engineering & Technology (J.E.T) Limited in Feb 1994. Starting as "engineer for hire" I successfully executed development contracts for many blue-chip UK electronics companies. The company grew to employ three other engineers, a financial and general manager and a sales person by 1995. At this time we decided to develop our own range of mobile data products to extend the company beyond purely contract work. I obtained the necessary funding to begin this work as a mixture of private finance, government grants and retained profits. Although this work was completed successfully the company collapsed due to two cancelled contracts. These cancellations caused a cash-flow crisis at a time when cash was already tight due to the aforementioned internal development. Our bankers became nervous and withdrew the company's overdraft facility.

Projects undertaken by J.E.T. include:

Work on the channel tunnel project with Motorola radio division.
Radio-telecommunications exchange software development with Simoco (formerly Philips radio).
Mobile Radio programming software for Motorola and Ranger Europe.
Scientific Instrumentation hardware and software development for Philip Harris plc.
Confectionery machine development with DMC moulding for Thorntons plc and Mars plc.
Mobile radio data solution for British Gas South East with Marconi Communications.

EMC re-development work for GEC Alsthom T&D and Dexion plc.
Radio telemetry unit for GPT Payphones division.

5.4 **APD Communications** **Senior Electronics Engineer.**
Newlands Centre. June 1987 to Nov 1989
Inglemire Lane.
Hull. HU6 7TQ.

My initial role at APD was computer architect /digital hardware designer. I wrote the microcode for the APD MF1640 CPU. From March 1989 I worked on a number of telecommunications projects as designer /design authority and team leader. These were basically fixed price consultancy and software development contracts for larger OEMs.

5.5 **Ulvertech Ltd.** **Electronics Engineer.**
North Lonsdale Road. April 1985 to May 1987.
Ulverston.
Cumbria.
LA12 9DL.

Whilst at Ulvertech I only really worked on one large project, the HRTS (High Resolution Target Sonar) development project. This involved leading edge DSP design (30 MIPS on one board in 1985 !) and some analogue RF design. I wrote the software for the DSP (image processing) in machine code.

5.6 **SRD Ltd.** **Electronics Engineer.**
Grovehill Ind. Est. June 1983 to March 1985
Beverley.
North Humberside.
HU17 0JW.

This was my first full time electronics job after graduating. At Sonar Research and Development (SRD) I worked on low noise RF receivers and high power RF transmitters. At SRD I learned how to engineer electronics properly, it has proved time and again an invaluable and fortunate grounding.

6 **REFERENCES**

Available on application.