

# Ian David Rothwell

## OVERVIEW

A highly capable, innovative and experienced engineer with a proven track record on various projects. Extensive background in Automated Test (ATE), hardware and software design, coding and debug using LabWindows/CVI, LabView, TestStand, ATLAS, SABRE, VB .NET, C, C++, C#, Forth and Pascal. Also Perl and TCL scripting. Additional skills include development of hardware/software for embedded systems, boundary scan (JTAG) and automated software test development. Software test background involving use of TestDirector (Quality Center), QuickTestPro, TestStand and bespoke test solutions. Configuration control using ClearCase, SourceSafe, CVS, SVN/Tortoise and Continuous (Synergy). Experience as team-leader.

## TARGET JOB

**Desired Job Type:** Contract  
**Work Load:** Full-time  
**Rate:** Negotiable  
**Site Location:** No Preference  
**Date of Availability:** Mid January 2010 or 1 month notice

## TARGET COMPANY

**Company Size:** No Preference  
**Category:** Engineering, Computers, Software

## EXPERIENCE

7/2009 – Present      EADS Astrium Ltd      Portsmouth

### **Software Engineer (Contract)**

Developed C++ software and TCL scripts for testing RF components of Alphasat satellite. Developed drivers and test support tools, many incorporating SQL to store and retrieve data from MySQL and MS Access databases.

5/2002 – 7/2009      Nokia Mobile Phones Ltd      Farnborough

### **Software Engineer (Contract)**

Developed software for robotic system based on TestStand and LabWindows/CVI for automated applications software testing of latest Symbian (EPOC) based imaging mobile phones. Devised applications test cases for Bluetooth Audio, DRM, COD and Wireless Village. Used TRY, TestQuest, QuickTest Pro software automation tools and Test Director. Developed various internal sw tools for test automation.

5/2001 - 3/2002      Astrium Space Ltd      Portsmouth

### **Software Team Leader (Contract)**

Team leader for group of four engineers developing generic test software. Produced and maintained LabWindows/CVI code in support of test systems for the Inmarsat4 satellite programme (mostly development of Windows DLLs for use with TestStand). Acted as consultant for LabWindows/CVI, LabView and TestStand.

5/2000 - 5/2001      Racal Instruments Ltd      Slough

### **Design Engineer / Team Leader (Contract)**

Team leader for group of three engineers. Designed a PXI based test system, both hardware and software. Recommended company replacement Boundary Scan (IEEE1149.1) system. Provided consultancy and programming services for LabWindows/CVI based software. Supported and advised hardware design team on testability issues with input to product design.

11/1990 - 5/2000 Testech Ltd / Serco Systems / Poole / Portsmouth  
**Programmer / Senior Engineer (Permanent)**

Involved in all aspects of both civil and military projects from initial quotation through to commissioning and acceptance phase.

Major projects were:

- (i) AS90 (MoD) – Developed SABRE test programs and test jigs for AS90 self-propelled howitzer, in particular the TCC LRU (approx. 2 ½ year project). Developed on VAX and hosted on Racal DIANA ATE.
- (ii) Nortel (Harlow) – Developed HP-Vee for 2Mbit multiplexer and optical variant.
- (iii) Siemens (Congleton) – Developed LabWindows/CVI solution for their AC Motor controller test bed.
- (iv) Lucas (Birmingham) – LabWindows/CVI for Trent Engine PCU test and test executive.
- (v) MATS test system – Developed embedded C and designed hardware for bespoke sub-system using 80186 processor.
- (v) AeroStanrew (Barnstaple) – Developed LabView test executive for Apache PNVs.
- (vi) Computing Devices (Hastings) – Video Voice Recorder (VVR) test solution based on ASTEC test system.

Proposed, devised and developed the ASTEC modular PC-based test system. Company expert in LabVIEW and LabWindows/CVI languages.

Provided support and consultation both internally and to various customers using National Instruments hardware and software.

Appointed as Lead Engineer for VVR and TRW Pegasus Engine projects.

12/1987 - 11/1990 GEC (Marconi) Avionics Ltd Rochester, Kent  
**Applications Software Engineer (Permanent)**

Key engineer in development of test software and test fixtures for Standard Central Air Data Computer (SCADC) which was hosted on MATE Unix test system using ATLAS-716.

Produced initial design documentation to MIL standards, designed test fixtures and produced TRDs using PAWS system hosted on VAX.

Customer was DoD (US Air Force and Navy).

10/1983 - 12/1987 PM Technical Services Ltd Retford, Notts  
**Technician/ATE Engineer (Permanent)**

Demonstrated competence in maintenance and repair of discrete TTL and microprocessor based equipments.

Developed fully automated test facilities using Beaver Major ATE for a medium-sized central repair workshop serving the whole of the UK.

Wrote innovative software in GW-BASIC on PC and PASCAL on VAX to increase efficiency of the production of customer-specific firmware for turn-key applications.

Provided technical assistance and support for field staff.

## EDUCATION

9/1987 Sheffield Hallam University

**HND in Electronic Engineering**

9/1985 Chesterfield College of Technology

**BTEC Supplementary Certificate in Microprocessor Based Systems**

9/1984 Chesterfield College of Technology

**HNC in Electrical and Electronic Engineering**

9/1982 Chesterfield College of Technology

**City & Guilds Course 224 (Electronics Servicing)**

<b>TRAINING COURSES</b>	4/1988	Introduction to Avionics	Cranfield Institute of Technology
	6/1994	LabWindows/CVI Basics	National Instruments
	5/1997	LabView Basics	National Instruments
	5/1997	LabView Advanced	National Instruments
	9/1999	Presentation Skills	Smallpeice EnterprisesLtd
	8/2002	Continuous CM	Nokia

**REFERENCES**

**David Jones**                      Nokia R&D (UK) LTD  
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**Reference type:**                Personal

**PERSONAL  
INFORMATION**

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