



Name: Michael Clayton

Nationality: British

Marital Status: Single

Car Driver/Owner: Yes/No – will purchase

Education: MSc Microprocessor & Technology Applications

Brighton Polytechnic

BSc (Hons) Physics

Bristol University

Key Skills: Software Test, Verification & Validation

Ada 83, Ada 95

UML

Yourdon

C/Assembler

Consultant’s Comments: Michael is an experienced aerospace and defence engineer looking for a new challenge in the UK close to family. He is looking to work for a large organisation with room for progression and development.

Availability: Immediate

Location Sought: Derby – will relocate (has family in Mansfield area)

Position Sought: Software Verification Engineer

Salary Sought: ­­£31k

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Contact

Jack Eckersley

Bullet E [j.eckersley@jamrecruitment.co.uk](mailto:j.eckersley@jamrecruitment.co.uk)

Bullet T 0845 050 5522

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Company Registration No. 04085504

Bullet T 0845 050 5522 Bullet E info@jamrecruitment.co.uk Bullet W www.jamrecruitment.co.uk

QA Engineer with over 5 years’ experience with European Space Agency (ESA) ADA 83 programmer/Team Leader with 11 years in Electronic Warfare defence projectsElectronic test engineer with 5 years in Electronic Warfare defence projects

Experience

QA Engineer Herschel Space Observatory,ESA, Madrid, SpainSept 2006 to Dec 2011

• QA secretary to multiple Configuration Control Boards (ccbs) responsible for organizing the agenda and minutes of weekly and monthly meetings of various sub-projects comprising the Herschel Science Ground Segment for the Herschel Space Observatory, a major milestone mission for ESA currently observing at the L2 point . Ensuring conformance with ECSS Standards Q-80B (Space Product Assurance), E-40 Parts 1B & 2B (Space Engineering)

• Specifically, ccbs for the Proposal Handling System based around a version of HSPOT used in the Open Time and Guaranteed Time proposal calls and the same ccb covered the uplink Mission Planning system used to generate the observing schedules for each observational day; the Herschel Common Science System (HCSS) core ccb; the weekly operational ccb in control of approving all changes to the operational system; the Systems ccb controlling the systems integration testing and acceptance testing of the next major operational version.

• Close liaison with the development Java software engineers and the Astronomers and calibration scientists responsible for both uplink and downlink chains. Supported multiple releases of the HCSS software from prior to mission launch, through the Science Demonstration Phase to the current Routine Phase, ensuring software changes have been properly tested and validated within the Jira configuration control tool.• QA support to monthly ccbs for six mission data archives (XSA, ISDA, PSA, HSA, PLA, SSA) for multiple ESA space missions tracking software changes and evolution of the archive versions ensuring that valid software release notes are being issued containing the approved changes.• Monthly reporting to QA and project management

ADA 95 programmer / System Test EngineerLogica CMG,Leatherhead, UKJuly 2004 to Aug 2006

• Member of Asset Data Management team part of development of new Fire Control artillery software (FCBISA) for British Army modelled in UML. Coded parts of the OOD model in ADA 95. Budget limitations meant unit testing for which I was scheduled could not commence so moved onto the System Test Team for the Crown Prosecution Service project writing scripts for validating the functional requirements of the system using the TOAD DB tool to simulate court case data.

Requirements documentationEADS, Munich2004 (10 weeks)

• Part of small team reverse engineering into functional requirements from existing Fortran modules for the Eurofighter Flight Control software

Test Engineer,Thales,Raynes Park, London2003 (3 months)

• Writing the test specification and producing the final test report from running test cases for a helicopter avionics module, the test cases being executed via emulator on the 68020 target.

Team Leader,BAE Systems,Stanmore, Middx1994 - 2002

• Team Leader of small team writing real-time ADA 83 code for testing of 68020 custom hardware boards using in-circuit emulators running UNIX as part of early development phase of Processor module code for the Eurofighter Electronic Warfare Defensive Aids System (DASS).

Code was used in chamber Environmental testing as well as system testing of integrated modules on the test integration rig to demonstrate correct communications via the 1553 bus and separate EFABus links. Due to delays in the software life cycle of the final HOOD designed code, our fasttrack software was evolved far beyond its original intention requiring reverse engineering of a design and proper documentation produced using the Teamwork tool running Yourdon. The configuration control tool was Lifespan. Subsequently, 1 year acceptance testing of the complete Processor LRI on the Systems Integration rig.

• Weekly reporting to line management of the status of all modules under my control as well as planning the team members' work via the PERT Project Management tool.

ADA 83 programmer,Marconi Defense Systems,Stanmore, Middx1991 - 1993

• Programmer for THOR Electronic Warfare System for Tornado aircraft writing ADA 83 test code (BIT) for the 68020 processor boards tested in-situ within the countermeasures pod using in-circuit emulators. Design documentation was done using Teamwork in Yourdon.

Electronic Test Engineer,Marconi Defense Systems,Stanmore, Middx1984 - 1989

• Testing of analogue and digital processor boards for the Guardian Electronic Warfare System which was an evolution from the original analogue Radar Warning Receiver using multiple 8086 boards for the data and signal processing but preserving the existing analogue front end. Wrote the test procedures and reports for the testing of multiple analogue boards as well as providing support to the ongoing factory production process across all line replaceable units at the Portsmouth site. Acceptance testing of the LRI prior to customer shipping.

• Anechoic chamber testing of RF components for Guardian checking angular sensitivity across the frequency range.

Applied Optics Engineer,British Aerospace Dynamics Division.Stevenage, Herts, UKOct 1980 – May 1984

• Infra-red optics engineer working on the new Rapier FSC prototype. Mostly testing individual Joule Thomson liquid nitrogen coolers for the 8-12 micron IR array as well as some computer modelling using Fortran.

Education & Training1989 - 1990MSc Microprocessor Technology and Applications Brighton Polytechnic,UK1977 - 1980BSc Physics (Hons III) Bristol University, UK-----------------------------------Courses in ADA 83, OOD, Yourdon, C, Pascal, Project Management, 68020 assembler, CMM quality assurance, UML, Unix emulatorsInterestsSkydiving, Technical Scuba Diving, Horse Riding, Climbing, Cycling, AstronomyPersonalFull clean driving licence  
British passport   
Spanish language (Intermediate)

References

Available on request