Robert Bishop

Qualifications	European Engineer, FEANI Group 1 Register 1988 MIEE 1980 (now MIET) B.Eng (Honours) Electronic and Electrical Engineering, University of Sheffield,1970
Date of Birth	1949
Nationality	British
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Experience

GID Ltd

1/89 - present	Working as an independent consultant, covering a wide spectrum from strategy and architecture to design and implementation.
1/13 – 10/13	Analysis of temperature recorder data pursuant to a claim for damage to refrigerated cargo.
11/12 – 2/13	Analysis of the credibility of purported email traffic for a matter being heard by a GAFTA tribunal.
6/11 - ongoing	Web engineering and infrastructure setup and support for an iXBRL validation service.
12/10 – 3/11	Recovery and analysis of ship's email traffic pursuant to a claim for damage to cargo.
12/09 – 8/10	Electrical engineering support to expert witness for a fatal accident enquiry following a fire at a nursing home.
8/00 – 12/11	Specialist support for Apple Macintosh users at HMRC. Includes application and operating system software support, hardware and infrastructure installation and commissioning and advice on thermal and electrical supply issues.

11/94 –10/13	Design and implementation of custom data analysis software to assess the financial performance of investments in commercial property. Includes the development, support and ongoing enhancement of data management, analysis, consolidation and reporting software.
11/90 – ongoing	Design and implementation of software to simulate fire and explosion damage in the petrochemical industry. This has included development and ongoing support and enhancement of two distinct software packages.
3/08 – 7/08	Planning and setup of collocated data centre facilities for GID and clients. Covering connectivity, routing, DNS, server, router and switch provisioning, availability, thermal and electrical supply considerations.
1/06 – 12/07	Server software development for a streaming financial data application. Design and implementation of interface software for various data feeds. Optimisation of server behaviour in the face of excessive data rates.
9/05 – 11/05	Consulting for HMRC on design assurance of XML structures for transfer of data for various returns and submissions.
5/05 – 9/05	Planning and implementation for HMRC of changes to local and wide-area network infrastructure supporting their base of Apple Macintosh systems. This included software configuration changes and staged roll-out on multiple sites.
11/04	Special investigation for HMRC into difficulties experienced by taxpayers using Macintosh OS 9.x when accessing the web portal.
4/03 – 3/05	Consulting for HMRC, investigating design options for a major update of core computer infrastructure. Analysis of the existing systems and their complex interaction, evaluation of possible technology options for the future and investigation into the problems of transition.
9/02 – 3/03	Setting up and running infrastructure for HMRC's selection of an outsourcing contractor, including availability and electrical safety aspects. Commissioning of a temporary remote datacentre, data communications, and office facilities for the competing contractors.

10/01 – 9/09	Design, implementation and maintenance of cluster computing hardware running financial analysis software, including electrical supply, safety and thermal considerations. Development of cluster management and monitoring tools.
5/01 – 8/08	Technical management of an in-office data centre, including electrical supply and safety aspects, periodic electrical test and inspection.
12/00 – 9/05	IT support to studies modelling environmental impact of commercial aircraft operations, including development of specialised simulation software. Design and implementation of a cluster computing facility to run the simulation software, including electrical, safety and thermal considerations.
1/89 – ongoing	As GID's safety officer, responsible for safety aspects of all GID's operations. This includes organisation of assessments and periodic inspection and test of electrical equipment.

Earlier Projects

- Feasibility studies for voice over IP implementation.
- Development of call centre systems for a UK utility, focussing on identification issues in diverse back-end systems.
- Construction of database and data analysis software for applications including insurance underwriting and expert witness support.
- Technical QA support for the European Commission in the deployment of Europe-wide network systems for public health and other application areas.
- Support for a UK defence research group investigating application of multithreading on multiprocessors to a vehicle routing problem.
- Design and implementation of secure Internet gateways, from hardware up.
- Custom modifications to Sun's secure operating systems.
- Conducted a study for the European Commission Informatics Directorate on backup security for Unix servers

- Migration of legacy applications to modern platforms for a major bank.

- Development of software engineering support tools.

Imperial Software Technology Ltd.

11/86 - 12/88 — As Principal Designer, responsible for the development and portability of the user interface, graphics and database technology on which the Istar IPSE is built. Head of the technology group comprising 7 software engineers.

1/84 - 10/86 — As Senior Consultant, played a major part in the design and development of the Istar project support environment. From Nov 1984 until Apr 1988, responsible for Quality Assurance within IST.

From Feb 1986 to Jan 1987, head of the collaborative team working on the Software Strategy study in the definition phase of the European Commission-funded RACE programme.

British Telecom

11/81 - 12/83 — As Head of Software Standards (CHILL and Ada) group, responsible for technical aspects of BT's participation in the MCHAPSE programme to develop a support environment for programming in Ada and CCITT-CHILL. Participated in development of BT's medium to long-term plans for activities in software engineering. Acted as reviewer for related study work funded by the European Commission. Represented BT on the CCITT study group designing the 1984 extensions to CHILL, and on working groups of Ada-Europe and British Standards Institute.

9/79 - 11/81 — As head of group, responsible for development of BT Universal Microprocessor Development System.

4/77 - 9/79 — Design and development of software for a high-reliability multi-microprocessor system for very accurate call charging in telephone exchanges.

1/72 - 3/77 — Participated in the Experimental Packet Switching System project from initial specification through to public service.

9/70 - 12/71 — Worked on secure power supplies for switching control computers and on hardware and software error recovery techniques.