



Making IT  
good for society

## Chartered IT Professional (CITP) Personal Statement

### Applicant details

Surname/Last/Family name: [REDACTED]

First names: [REDACTED]

Title (Mr/Mrs/Ms etc): Mr

BCS reference no: [REDACTED]

Please provide a statement of your experience, to support your application, against each of the assessment criteria under the headings – Breadth of Knowledge.

To meet CITP standard you need to demonstrate a breadth of knowledge across IT and computing. You can do this by evidencing educational qualifications, training and/or experience. Please refer to the Applicant Guidance for assistance on completing this section.

It is important you give specific examples of work for which you have been personally responsible.

### Breadth of Knowledge

#### Principles of information technology

Knowledge and understanding of essential facts, concepts, principles and theories relating to information technology

Solutions Architect with over 21 years' experience (12 years' at BAE Systems, 5 years' in the Consulting sector and 3 years at Dell Computing).

Relevant courses:-

- BSc Hons Information Systems Management with 1 year placement at Bull Information Systems
- ITIL v3 Foundation
- ITIL v3 Planning Protection and Optimisation Capability
- ISEB Certificate in Information Security Management Principles (CISMP)
- TOGAF v9 Certified

Work related examples of IT concepts and principles:-

Delivering the DR Outline Business Case to the Department for Transport in 2016 for incorporation into the Control Period 6 (CP6) Initial Industry Plan (IIP), as well as defining and developing the digital railway system of systems (SoS). As part of Digital Railway System of Systems work, assessing current industry

capabilities to identify strengths and areas for improvement, and inform transition states to final target state team. Achievements as System Architect include:

- Develop System Engineering Management Plan (SEMP) based on ISO/IEEE 15288:2015 and Network rail best practices.
- Define and shape the key report to capture the 'as is' capability assessment and in-flight programmes and projects.
- Review in-flight Programmes and Projects to identify gaps, overlaps, and synergies.
- Provide an independent analysis of the existing 'as-is' capabilities within the GB rail industry.
- Develop and model key scenarios to support the target state CONOPS.

Other related work experience responsibilities were to define IT solution that adhere to customer requirements, utilising existing BAE architecture building blocks to support the Typhoons aircraft maintenance and supply chain capability and define supporting IT infrastructure. This included delivering customer based local networks and infrastructure services, trusted zones and connectivity between BAE Systems and the customer, adhering to policies and standards. Achievements as Solution Architect include:

- Defining and implementing a project framework to support internal and external suppliers deliver IT solutions, reducing rework and improving delivery time.
- Defining solution patterns and principals, to ensure services are delivered to a high standard.
- Delivery of IT infrastructure and functional solutions to budget and on time, in a very challenging environment.
- Deliver Security document which defined the "Code of connection" between BAE systems and customer.

Key Responsibilities:

- Deliver IT Solution designs to support customer non-functional and functional requirements.
- Undertaking design review assessments of supplier detailed solutions to ensure systems functionality are delivery align to business requirements.
- Undertake a Trusted Advisory role to the customer to help shape and define product/infrastructure roadmap of capability to be delivered.
- Deliver proof of concepts and product assessments with a view to undertaking impact assessment on the service design, service delivery and operation.
- Manage geographically distributed teams across different projects; overseeing the implementation of IT capability, ensuring integration with systems is seamless managed and executed.
- Delivery virtualisation approach for existing key infrastructure services (AD, DNS, Exchange, SCCM, File and Print), to support the virtualisation of the estate.
- Work with key stakeholders to deliver a business case for implementation for a collaboration solution.

### **Exploitation of information technology**

The commercial, economic and process aspects of the development, use and maintenance of information technology including management techniques and information security

What knowledge do you have about the exploitation of IT including management techniques and information security?

Attend regular BAE Systems MAI Product Security Community of Practice, where we discuss policies and security topics such as Security monitoring. Security within BAE is considered at all levels within the organisation and everyone is responsible, it's an important consideration within the Defence realm.

Exploitation of IT can be achieved through various techniques:-

- Strategically by developing Portfolio management catalogue (planning for future),

- Operationally and tactically using change management (usually short term).

However the fundamentals of understanding and validating requirements (legal and regulatory requirements need to be defined and understood) are key activities, along with identifying the stakeholders and understanding the impact of change on the organisation and if the organisation is ready to adopt the changes “Business readiness” assessment.

When exploiting Information technology we look at undertaking capability assessments from a strategic viewpoint and tactical viewpoint. I personally have undertaken this with Digital Railway project, which involved developing a capability maturity assessment framework and interviewing various industry stakeholders, see link for further information (<http://www.railtechnologymagazine.com/Comment/a-collaborative-approach-to-industry-architecture/175403>).

As part of the project we modelled digital railway, which helped to highlight areas of business risk and allow the customer to better understand the overall solution, this mapped to the capability assessment to highlight areas/gaps that may need to be considered. The models also helped to visualise scenarios which helped to identify social, ethical and legal considerations, ensuring delegation of authority at correct levels, highlighting safety implications arising from increase rail traffic.

Another of the roles that I have undertaken within BAE Systems has been as the Technical Authority for the Solution Development Facility, the main achievements include:

- Defining and implementing environment framework to support the development of capability and the delivery of web enabled capability to customers.
- Simplifying the capability technology stack, moving from a ‘stove pipe’ to an n-tier architecture and a shared services concept.
- Reducing the through-life support cost for capabilities delivered within the Hosting environment.

As the TA for the SDF my key responsibilities where:

- Define and manage the architecture strategies, policies, standards and procedures.
- Authority signatory of the Logical Technical Design, Physical Technology model and Logical Application Model for the environments.
- Technical Design assessor and authority for new capability which is to be implemented in the hosting environment.
- Facilitation of business and technical workshops to define and prioritise functional issues and enhancements, capture requirements and drive solution design.
- Supporting the corporate Security group in achieving GSO accreditation of the environments.
- Shaping and defining product/infrastructure roadmap of capability to be delivered.
- Manage geographically distributed teams across different projects.
- Managing multiple suppliers.
- Attend and advise on the Change Control Board meetings.
- Attend the JAG (Joint Architect Group) sessions as and when required.
- Undertaking Product assessments and Proof of Concepts to support development of the Product portfolio.
- Work with other technical authorities and key stakeholders to ensure that the capability road map is in line with their commitments.
- Oversee the implementation and execution of the capability to the customer in the hosting environments.