

**INDUSTRY CLASSIFICATION** (O2) - Defence Industry - Sea Systems

**AGE AT INTERVIEW** 37

**ELECTION OR TRANSFER TO:** Member

**FIRST DEGREE** 2:2 Hons. from Bradford University in Mech. Eng., 1986

**SUBSEQUENT DEGREES AND OTHER QUALIFICATIONS** - None

**EXPERIENCE PRIOR TO PRESENT POSITION**

Rolls Royce Naval Marine, 1986-1988 – Design Engineer, pressure vessels and in-service technical support; 1990-1991 (part-time) – NDE Engineer, in-service inspection of welds; 1988-1996 – Stress Engineer, structural integrity assessments of nuclear plant components.

**PRESENT POSITION**

Rolls Royce Naval Marine, 1996-present – Senior Stress Engineer. Duties and responsibilities include:

- Structural integrity assessments of emergency coolers and pressuriser vessels
- Co-ordination of technical projects in stress and design offices
- Providing safety justifications for the MoD
- Acting as team leader for a group of stress engineers

**STAFF REPORTING** - **PROFESSIONAL** 2  
**TECHNICAL** 0  
**MANUAL** 0  
**OTHER** 0

**INTERVIEWERS' COMMENTS**

**A Demonstrate knowledge and understanding of engineering principles**

<b>Key elements of competence</b>	<b>Examples of meeting A</b>
maintains a sound theoretical approach to technology applies a creative approach to problem solving introduction/exploitation of emerging technologies promotes innovation and advances in technology	Deeply involved in design of PWRs. Use of complex analysis; resolution using finite element methods; fracture toughness of arc weld material. Use of multiple analysis techniques.

**B Demonstrate practical application of engineering knowledge and expertise**

<b>Key elements of competence</b>	<b>Examples of meeting B</b>
takes initiative to identify potential projects and opportunities participates in or specifies research, design and development plans and implements solutions evaluates solutions identifies what has been learnt from the activity	Fracture analysis identifying fatigue problems. Analysis of EAC on tube bends; development work concluding in overall safety justification report. Development of university project now used in-house.

**C Leadership and management**

<b>Key elements of competence</b>	<b>Examples of meeting C</b>
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<p>experience of effective project planning and implementation</p> <p>manages and plans budgets, tasks, people and/or other resources</p> <p>ensures team members have appropriate skills</p> <p>contribution to continuous improvement via quality management</p>	<p>Cost/resource planning &amp; monitoring in current post.</p> <p>Leadership of HMS Tireless project team</p> <p>Wrote safety statement for short-term submarine operations.</p>
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**D Communication and inter-personal skills**

Key elements of competence	Examples of meeting D
<p>demonstrates oral communication skills</p> <p>displays written communication skills</p> <p>has the ability to present and discuss ideas and plans</p> <p>ability in team building and negotiating activities</p>	<p>Very steady and fluent at interview.</p> <p>Excellent Professional Review Report.</p> <p>Manages projects and supervises agency subcontractors. Quality network building.</p>

**E Professional conduct**

Key elements of competence	Examples of meeting E
<p>compliance with codes and rules of conduct of the profession</p> <p>application and management of safe systems of work</p> <p>familiar with relevant legislation especially health, safety, risk and the environment</p> <p>displays a commitment to undertake continuing professional development, including a personal Development Action Plan</p> <p>demonstrates involvement with the IMechE, other professional engineering Institutions, schools, colleges or local other community activities</p>	<p>Adopts a full range of relevant national and international standards.</p> <p>Made it clear that this is one of the main aspects of his work.</p> <p>Presented a personal Development Action Plan at the interview.</p> <p>No direct involvement but responded with some general views about IMechE</p>

**COMPETENCES AWARDED**

A	B	C	D	E
4	4	3	3	3
4	4	3	3	3

**PANEL RECOMMENDATION**

Elect to Member

**MEMBERSHIP COMMITTEE DECISION**

Elect to Member