

**INDUSTRY CLASSIFICATION**

(MT) – Machine Tools

**AGE AT INTERVIEW**

31

**ELECTION OR TRANSFER TO:**

Member

**FIRST DEGREE**

1st Hons. from Loughborough Univ. in Mech. Engineering, 1992

**SUBSEQUENT DEGREES AND OTHER QUALIFICATIONS** - None**EXPERIENCE PRIOR TO PRESENT POSITION**

Taylor-Hobson Ltd, 1992-1993 – Mechanical Design Engineer.  
 Triumph Motorcycles, 1993-1994 – Mechanical Design Engineer.  
 Taylor-Hobson Ltd, 1995-2000 – Mechanical Design Engineer.

**PRESENT POSITION**

Taylor-Hobson Ltd., 2000-present – Principal Metrology Engineer. Duties include:

- Identifying and applying new technologies in company products
- Generating proposals and technical specifications for new products and design enhancements
- Planning, supervising and implementing design studies to verify performance
- Planning, controlling and leading all mechanical resources on assigned projects
- Providing mechanical design solutions to manufacturing, assembly and functional problems
- Providing technical/analytical support to other departments
- Mentoring graduate engineers and trainees
- Maintaining quality records

<b><u>STAFF REPORTING -</u></b>	<b><u>PROFESSIONAL</u></b>	0
	<b><u>TECHNICAL</u></b>	5
	<b><u>MANUAL</u></b>	0
	<b><u>OTHER</u></b>	0

**INTERVIEWERS' COMMENTS****A Demonstrate knowledge and understanding of engineering principles**

Key elements of competence	Examples of meeting A
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	A theoretical approach to engineering science is key to Neil's work experience in metrology.  He routinely uses finite-element methods and develops basic concepts in interferometry, induction techniques and sensing.

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

Key elements of competence	Examples of meeting 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	Has worked on the basic development of surface and roundness measuring machines, from initiation through to final production.  Development of precision air bearings.  Early career experiences have been recycled to solve subsequent problems.

**C Leadership and management**

Key elements of competence	Examples of meeting C
<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>Has led investigation teams and design groups, motivating them by his own enthusiasm and depth of knowledge.</p> <p>Is initiating a new graduate into FMEA techniques.</p> <p>Good hands-on approach to dealing with any weaknesses in his team</p>

**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>Can explain complex concepts both verbally and in writing.</p> <p>Has led presentations to his company's Board on new product developments.</p> <p>Infectiously enthusiastic on all aspects of engineering.</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>Satisfactory evidence of safety awareness where this impacts on his design and development work.</p> <p>Past involvement with Neighbourhood Engineers and other schools activities.</p> <p>Restores and demonstrates vintage machinery.</p>

**COMPETENCES AWARDED**

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

**PANEL RECOMMENDATION**

Transfer to Member

**MEMBERSHIP COMMITTEE DECISION**