

**INDUSTRY CLASSIFICATION** (V) - Automobile Industry

**AGE AT INTERVIEW** 29

**ELECTION OR TRANSFER TO:** Member

**FIRST DEGREE** 1st Hons. from Cambridge Univ. in Engineering Sciences, 1994

**SUBSEQUENT DEGREES AND OTHER QUALIFICATIONS** - ACCA Diploma in Accounting & Finance, 1995; MA, 1998.

**EXPERIENCE PRIOR TO PRESENT POSITION**

Ford Motor Co. Ltd., 1990-1995 - sponsored student and IMechE accredited training programme.  
Cosworth Technology Ltd., 1996 - Graduate Trainee; 1997-1999 - Development Engineer; 1999-2000 - Senior Development Engineer.

**PRESENT POSITION**

Cosworth Technology Ltd. - Principal Development Engineer. Currently working as Development Leader on a project involving design, development and calibration of a turbocharged V8 petrol engine. Duties include:

- Managing a team of 6 development engineers.
- Problem solving, organising technical meetings, supervision and training.
- Client liaison on technical issues.
- Planning and reporting progress on development activities.

Outside the project, contributes to departmental development activities and to training of MPDS graduates.

<b><u>STAFF REPORTING -</u></b>	<b><u>PROFESSIONAL</u></b>	6
	<b><u>TECHNICAL</u></b>	0
	<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	Cycle simulation using spreadsheet approach for simplicity and better understanding of underlying mechanisms.  Is Development Team Leader on update of twin turbo V8 push-rod engine.

**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	Investigating novel inlet passage designs.  Results of her testing on valve train mechanism dynamics led her to recommend design changes, which were adopted.

**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>Leads a team of six professionals.</p> <p>Enjoys managing and dealing with people; gave good example of how she dealt with a weak team member and solved the problem in a positive way.</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>Possibly slightly nervous but excellent overall performance.</p> <p>Report OK but a bit high on jargon and low on specifics.</p> <p>Very personable - appreciates customer needs.</p> <p>Good example of one of her reports to a client.</p> <p>Holds fortnightly meetings with her team members.</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>Aware of these issues but hadn't had much dealing with specific paperwork.</p> <p>Clearly familiar with relevant legislation, e.g. on emissions.</p> <p>Has personal Development Plan and intends to do an MBA.</p> <p>Already mentors graduates and wishes to do more.</p>

**COMPETENCES AWARDED**

A	B	C	D	E
3	3	3	3	3
3	3	3	3	2

**PANEL RECOMMENDATION**

Transfer to Member

**MEMBERSHIP COMMITTEE DECISION**

Transfer to Member