

# Andrew Wilde

## Personal Details

Date of Birth                    04 April 1974  
Birthplace                    Cuckfield, England  
Nationality                    British

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## Engineering Skills

I am a hard-working & responsible Engineer. I can communicate well, both on paper and verbally, and believe I have common sense and strong job ownership, together with the capability to have an overview of the whole system where required.

I believe it is essential for a good Engineer to have both a technical and a practical understanding of both the equipment and the way it interfaces with the rest of the system. In a manufacturing environment, this includes design, inspection, assembly and testing of it (and its components & sub-assemblies), and an understanding of not only the equipment, but also of the application it will be used in.

A good engineer never stops learning, and has the ability to turn their hand to whatever job is required. Having a wide technical experience base also encourages technologies and ideas to develop within a team. It is also useful to have an understanding of the business processes across a business, to enable effective interactions between departments. I also believe that experience is best shared, and work hard to communicate well, especially with younger engineers. I also enjoy the feeling of improving someone's capability and usefulness through informal on-the-job training.

## Mechanical systems

I have a practical and hands-on understanding of engineering in general, and like to comprehend how a system works. I have strong 3-D visualisation skills, am organised, numerate, and also understand the mathematics behind sound engineering principals. I usually maintain my own cars & bikes, and have been involved in the design & development of various pieces of equipment relating to my interests, in addition to my professional experience.

## Pressure Containing Equipment, Corrosion, Hydraulics & Mechanical Handling

I have good knowledge of pressure containing equipment including use of ASME B31.1 & B31.3 piping codes. I have extensive experience of hydraulics, and am familiar with pressure systems rated up to 20000psi and clean environments to NAS 1638, SAE AS-4059 and ISO 4401. I have worked with both water-glycol based and oil-based fluids. I have also worked with lifting & handling equipment and am familiar with LOLER & PUWER, in addition to specific offshore codes such as DNV 2.7-1. In addition, I have a good understanding of the mechanisms of corrosion, coating systems and cathodic protection to Norsok M503, DNV RP-B 401 and ISO 12473, and have worked in the subsea industry (Oil & Gas and then Defence) since 2000. I am familiar with API 17D and ISO 13628, particularly parts 6 & 8 (Subsea Controls & ROV Interfaces), and have been involved with the qualification of electro-hydraulic equipment for depths of 3000 m (9850 ft).

## Computer literacy

I have some programming skills (Fortran, Basic, HTML and Visual Basic), and have analysed large quantities of data in spreadsheets such as Excel. I am competent in most common applications (MS Office, Mathcad, TK Solver, AutoCAD, etc) and have used e-PIMS, Visibility and TeamCenter information management systems. I can operate 3D Cad and FEA systems (but would not say I am as quick as someone who works with it full-time).

I take a pride in knowing how to use a piece of software properly, and being able to extract the best from it, and have good general computer literacy (including building my own PC's).

## Qualifications

Sept 96 - July 99	Bath University	MSc in Fluid Power Systems,
Oct 92 - July 96	Bath University	B Eng (Hons) in Mechanical Engineering
Sept 88 - July 92	Culford School, East Anglia:	
	A Levels (2 A's & 2 B's)	Maths, Further Maths, Physics, Chemistry

I hold a full, clean UK drivers licence.

## **Employment History**

### **Sept 06 – March 09      Weir Strachan & Henshaw, now Babcock Intec (Contract)**

Senior Mechanical Design Engineer, also acting as Systems Engineer, Hydraulics Specialist (particularly in respect of water glycol fluids and their associated compatibility & performance issues) and Controls Expert. After 4 months, I was given the role of Lead Engineer for the mechanical & hydraulic control of both the weapon handling controls equipment & discharge controls equipment. This involved developing the system from outline system concept to fully designed system, in parallel with the development of the equipment to be controlled.

Most of the equipment under my control was inboard, although in a military submarine environment. However, I also had significant involvement with outboard systems as well as shore-based removable embarkation equipment.

The position involved significant contact with both my client's customer (Navantia, a Spanish ship-builder) and the end user (Armada Espanola). It also involved working closely with suppliers, to ensure the system we developed met all requirements.

I was also used as a peer, to review solutions on other equipment throughout the company. This varied from hydraulic systems in the nuclear sector, through other marine defence projects (both UK and foreign, surface and subsea) to subsea power generation projects. I was also used to assist with the MPDS scheme and training, to help train graduates in specific technical skills, from hydraulics & hand-calcs to stress work & material selection.

### **March 06 – August 06      Sabbatical**

Taken time out to:

- Set up company to allow contract work
- Work on my house (to make myself available for work around the country, if required) and set up an alternative base in Surrey (I now have a static home there I can work from)
- Spend some time on interests outside of work

### **Sept 00 – March 06      Vetco Gray Controls (was ABB Offshore Systems)**

Senior Mechanical Engineer and Subsea Control Module (SCM) Unit Specialist involved with engineering, developing & qualifying Subsea Controls, Distribution Equipment and associated Test Equipment. This role held technical responsibility for the company's core product, and meant I was involved with the integration of the product into many concurrent projects, extending the operational boundaries of the product, in addition to fault-finding and R&D activities. This included management of the technical side of the projects from a mechanical perspective, alongside equivalent electrical and software specialists.

Equipment I was involved with included Subsea Control Modules and their associated Offshore & Onshore SCM Test Equipment, onshore and offshore Handling & Installation equipment, 3kV electrical power & fibre optic Communications equipment, Depth & Temperature Compensation Devices, and also being involved in a Task Force working on SCM Improvements, Component Qualification, a Six Sigma programme and a Root Cause Failure Analysis programme.

I have worked offsite in Brazil and Aberdeen (both onshore assignments). I was regularly involved in coordinating with suppliers, which sometimes involved off-site work.

### **Feb 00 – Sept 00      Cross Manufacturing**

Short-term contract in water filtration R&D department. This allowed me to work in engineering prior to taking a graduate position, whilst still taking time off for interviews and job-hunting, and allowed Cross to take on a skilled Engineer with no permanent contract & a short notice period. I was:

- Running an R&D test facility for development of self-cleaning water filters (both industrial and drinking-water filter products)
- Developing product design
- Testing for reliability, endurance and effectiveness under simulated worst-case conditions

### **Prior to Feb 00      Manpower (Whilst job-hunting for a Graduate Position)**

Variety of:

- IT (setting up & running a helpdesk; systems installation)
- Data entry

- Production line work, both in an industrial and food environment

## **Non-Professional Positions of Responsibility & Achievements**

I have represented British Universities, Somerset and more recently England and Great Britain for target shooting. I have competed at national squad qualifying level at both sailing and target shooting, and have international experience in both. I also enjoy being involved with coaching both beginners and experienced sportsmen & women, and sharing my experience and knowledge to help others improve, and am involved with coaching at club and university level.

I have held various positions of responsibility, ranging from House & School Prefect & Captain of Sailing at school, to Treasurer, Captain & Chairman of various University sports clubs, and more recently committee member of local Rifle Club, County Shooting Association, and local Photography Society.

At school I achieved Bronze Medallion for lifesaving, and Bronze, Silver & Gold Duke of Edinburgh awards. At university I was awarded with the Bath University Blue award for international performance in both Rifle Shooting and Sailing.

## **Interests**

### **Target Shooting:**

I have been involved with target shooting since my first year at university and have been on the committee of various clubs & county associations for over 15 years. During this time I have started up clubs (including overseeing the legislative aspects), and been involved with the rebuilding and re-certification of the University Range. I have had numerous successes, including being selected to represent the UK on a National Tour in May 2006, representing England in July 2006, July 2007, and for England and Great Britain in July 2008. I have also been selected for two England tours: One to New Mexico in September 2008, and one to South Africa in March 2009, and produced the sponsorship brochures for both tours.

The ability to reliably perform well under pressure, and the dedication & psychological awareness required to achieve these standards, transfer well as professional skills. I also feel that the ability to communicate a set of complex ideas to a newcomer (coaching) is another useful transferrable skill in the professional arena.

### **DIY and Maintenance:**

I maintain my own car and motorbike, and own a kit car. I enjoy the challenge of understanding how something works, and I like to use lateral thought and innovation to imagine ways to improve designs. I enjoy DIY and have made significant improvements to my house since graduating.

### **Photography:**

I have been creating photographs for as long as I can remember, and with the increase in popularity (and reduction in cost) of digital photography, am now getting involved with digital photography quite seriously. This skill has been very useful professionally in documenting some of the testing I have completed, and capturing fault conditions that are challenging to record.

### **Sailing:**

I have been a keen sailor for many years, although have stopped competitive sailing due to time constraints. I have taught many newcomers to sail, and have also had success at both team and individual racing.

### **Other Interests:**

I enjoy the creativity of cooking, gardening and landscaping, and value getting away to remote areas such as Dartmoor, the Brecon Beacons & the Highlands to hike or cycle. I also enjoy the mental discipline of other 'target sports' such as archery, air pistol, clay pigeon and winter biathlon. I find sports psychology particularly rewarding, especially as this transfers skills to all sides of my life, not just sport.

