

ANDREW DENNIS BARTON BEng PhD MIET CEng

Personal Details

Name:	Andrew Dennis Barton	Email:	Andrew.Barton@zf.com
Address:	19 Shenstone Drive, Balsall Common, Coventry, West Midlands CV7 7PG	Tel:	0121 627 3864 (Work) 01676 534 640 (Home) 07825 981 580 (Mobile)
		DOB:	10 th July 1972
		Marital Status:	Married

Academic Qualifications

1996 – 1999 PhD in “Control of high-speed chain conveyor systems” from the University of Southampton

1991 - 1995 Bachelors of Electrical Engineering from Brunel University at First Class with Honours, recipient of the Johnson Wax prize for the highest mark in the management exam.

1986 – 1990 9 GCSE’s and 3 A Levels at Waingels Copse School, Woodley, Berks.

Professional Qualifications

- Chartered Engineer
- Member of the Institute of Engineering and Technology
- Full driving license

Language, Packages and Standards

DOORS	SysML	AutoSPICE
Rhapsody	Embedded C	ISO26262 – Functional Safety
Matlab / Simulink		TS16949
dSpace and ControlDesk		
CANalyzer and CANape		
TargetLink		
MS Office including Project and Visio		

Hobbies

- Model Railways. Construction of model locomotives and rolling stock with a GWR leaning. Interested in the use of computer control for model railways.
- Naval and Military History. Studying Naval and Military history, with specific interest in strategy and the inter-relationship between politics, economics and military action.

Career Aspirations

- The implementation of Systems Engineering principles throughout an organisation
- Furthering Systems and Safety engineering skills in a product environment
- Leadership of multi-disciplinary engineering teams through initial requirements to delivery.

Recent Positions

May 2012 – Present: Chief Engineer, Systems Engineering, ZF TRW Steering Engineering

Responsible for all Systems Engineering in TRW Steering with a department of 44 Systems Engineers in the UK, Düsseldorf and Detroit. This has included:

- Introduction of Model Based Systems Engineering using SysML
- Development and roll out of Systems Engineering processes to meet ASPICE Level 2
- Leading bid/win discussions with customers and supporting requirements analysis

July 2008 – May 2012: EPS Systems Department Manager, TRW Electric Power Steering

Responsible for Systems Engineering and Software Requirements in the UK leading a team of 40 engineers. Activities included:

- Leading recovery activities with VW after a failed SPICE assessment.
- Leading delivery of a software package with extremely challenging time scales
- Managing recruitment and then redundancies and representing department interest in the EPS management team.

Oct 2007 – June 2008: EPS Systems Team Leader (acting), TRW Electric Power Steering

- Responsible for the leadership of the EPS Systems team in delivering customer projects, and managing analysis of customer returns. Involved dealing with customers, setting priorities and holding performance appraisals for team members

May 2007 – Oct 2007: Principle Systems Engineer, TRW Electric Power Steering

- EPP Systems engineering including generation of requirements documents, traceability, dFMEA and customer reviews.

2003 – April 2007: Principle Engineer, TRW Conekt.

- Preparation of quotes including timing plans and cost estimates for internal and external projects
- Responsible for project management tasks such as cost and time tracking, change control, and customer liaison on internal and external projects up to £150k. Use of MS Project and earned value charts for project tracking. Delivery on time and budget of a concept demonstrator project for an aerospace customer.
- Technical leadership of multi-disciplinary teams working on prototype systems for internal and external customers. Responsible for system delivery and providing leadership and coordination of component design teams. Projects frequently include the construction of a safety case. Some experience with CE marking. Solely responsible for delivery on time and budget of a concept demonstrator test rig that produced an order of magnitude reduction in software testing times.
- Cultivating relationships to generate further business for TRW Conekt from within TRW.

1999 – 2003: Senior Engineer, TRW Conekt.

- Technical development of steering and braking integration algorithms from initial concept in rapid prototyping systems to embedded prototype. Grew from responsibility for a single component, to overseeing development of the complete system.
- Technical work in simulation and practical implementation.
- Testing of systems on bench and on vehicle,
- Demonstrations of prototype systems to TRW customers and TRW senior management.

1991 – 1995: Engineer, Roger Preston and Partners Limited.

- Design of electrical installations for buildings. Activities included design of the fire alarm systems, design of lighting layouts and CHP feasibility study for the Palace of Westminster.

1990: Accepted by the Royal Navy for Engineer Officer Training.

IPR

Inventor, or co-inventor on 6 patent applications concerned with steering and braking integration.