

# Dr Daniel Paul Jenkins, BEng, MEng, PhD, C.ErgHF FIEHF, EurErg

British citizen – Full UK driving license

## Contact details

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## Qualifications

### Brunel University (Sept 05 – April 08)

*Human Factors and Interaction Design PhD*

My thesis, titled 'Cognitive Work Analysis: Coping with Complexity', proposes an approach for the analysis, design and evaluation of complex sociotechnical systems.

### Brunel University (Sept 99 – June 04)

*Mechanical Engineering & Design MENG – Distinction*

*Mechanical Engineering & Design BENG – First Class Honours*

### A Levels

Maths – A; Design & Technology – A; Physics – B

### GCSE's

10 Grade A\*- C

### Additional Qualifications

Chartered Fellow of the Chartered Institute of Ergonomics & Human Factors (CIEHF).

Registered European Ergonomist (Centre for Registration of European Ergonomists).

Registered Member of the Human Factors and Ergonomics Society (HFES) Europe Chapter.

Six-sigma green belt.

### Awards

2015 – *Human Factors and Ergonomic Society (HFES) User Centred Design Award*, for the Class800/801 train

2015 – *CIEHF Ergonomic Design Award*, shortlisted for the design of the Hitachi Class 800/801 intercity train.

2008 – *The Hamilton Prize*, awarded for the best Academic Viva in the 2007 – 2008 period.

2008 – *The Ergonomics Society President's Medal*, recognising the HFIDTC's significant contribution to research.

2004 – *University Prize*, awarded for the highest academic achievement in the School of Engineering & Design.

2004 – *The AutoDesk Award for design innovation*, for my MEng thesis on automotive lateral collision avoidance.

### Computer Skills

MS Office

MS Visio

MS Project

Adobe Illustrator

Adobe Photoshop

Adobe Flash

HTML / Adobe Dreamweaver

IBM Rational DOORS

TaskArchitect

A wide range of CAD/CAM packages

## Publications

I have published a number of internationally recognised books (10), journal papers (50+), conference papers (50+) and book chapters (6), asserting my position as an authority in the field of Human Factors. I have also devised and presented international workshops, teaching others to use the techniques I have developed. I am an invited reviewer for a number of journals and conferences. I have been invited to guest lecture at Imperial and the University of Oxford. A full list of publications is available at [www.sociotechnic.com/publications](http://www.sociotechnic.com/publications).

## Work Experience

I have a wide range of experience in Human factors, Design, and Engineering. As a sponsored student, I finished university with two years full-time experience as a Design Engineer, working throughout Western Europe. Upon graduation, I went to work in Japan for Nissan. In 2005, I was invited to return to Brunel University, taking up the full-time role of Research Fellow in the Ergonomics Research Group.

I studied part-time for a PhD in Human Factors and Interaction Design. In March 2009, I founded Sociotechnic Ltd. Having worked for large multinational organisations; I have developed business acumen at an international level. I have developed my skills in project management, customer interaction, presentation and tuition. I have gained the credibility of an academic, having published books and journal papers and presented at conferences globally. I am passionate about the role of human factors in the design lifecycle.

### **DCA Design International (July 12 – Present)**

I currently head up the research team at DCA working across all of DCA's four sectors (Industrial Commercial, Medical & Scientific, Consumer, and Transport). The role involves conducting high quality research with a strong emphasis on translating research findings into product improvements. Key projects include, the design of a train, medical devices, and a wider range of consumer goods.

### **Sociotechnic Limited – St Albans, UK (Mar 09 – July 12)**

Sociotechnic Limited is an independent consultancy specialising in the design and optimisation of complex sociotechnical systems. Applying innovative tools from human factors, ergonomics and cognitive systems engineering, an emphasis is placed upon improving system capability, efficiency and safety. Key projects include:

- *Integrated human factors support for a medical product development project – DCA Design*
- *Human factors input to a nuclear facility Pre-Commission Safety Report (PCSR)*
- *Review of Pre-Operational Safety Report (POSR) & Modification Safety Report (MSR) for nuclear facility Re-Kit*
- *Human factors input to a nuclear Safety Basis Report*
- *Design guidance, user trials, and the development of cross-carline standards – Jaguar Land Rover*
- *Integrated human factors support for a project addressing UAV control – BAE Systems AEI*
- *Evaluation and guidance on the use of Social Network Analysis tools – BAE Systems ATC*
- *Evaluation of maintenance support software for fighter jets – BAE Systems AEI*
- *A human factors scoping study for a nuclear submarine control room – Rolls Royce*
- *Development and delivery of training packages*

Key skills include, but are not limited to, the following:

- *Human machine interface design and evaluation (including the development of style guides)*
- *Task analysis, process mapping, and human error identification (HAZID, TRACER, SHERPA)*
- *Assessment and optimisation of human performance (CWA, HTA)*
- *Human reliability analysis (CREAM, FRAM)*
- *Human error quantification (HEART, THERP)*
- *Development of systems to support decision-making*
- *Allocation of function assessments (including workload assessment)*
- *Ergonomic and workplace assessments (control rooms, laboratories, industrial areas)*
- *Evaluation and development of emergency response plans*
- *Accident analysis (AcciMaps)*

### **Ergonomics Research Group – Brunel University, Uxbridge (April 05 – Mar 09)**

I worked on a project with the Ministry of Defence (MoD) for a consortium called the Human Factors Integration Defence Technology Centre (HFI DTC). Key projects include an evaluation of the BOWMAN command and control system, and design guidance for a helicopter mission-planning tool. My role required project management, presenting to the customer and large international audiences, training others in approaches developed, as well as establishing and maintaining international collaboration. Along-side my work for the HFI DTC, I was also involved with a number of projects addressing driver distraction, the introduction of new technologies into the automobile, the redesign of safety critical systems, as well as developing guidance for the design and development of supervisory control systems.

### **Nissan Technical Centre Europe – Cranfield (Sept 04 – April 05)**

As an Upper Body Design Engineer, I was involved in the launch of a new model to Europe. My role involved spending two months in Kanagawa, Japan, supporting the first prototype build and making the relevant design changes. Throughout the project, I had responsibility for the upper body panels cost, quality and delivery.

### **Ford Motor Company – Dunton, Aveley, Dagenham, Merkenich (June 00 – Sept 02)**

As a Ford sponsored student I worked full-time for 21-months, during summer holidays and my 'year-out', I worked in a wide range of roles across the business including ergonomics, serviceability, and manufacture.