

Daniel Paul Jenkins

BEng, MEng, PhD, C.ErgHF, FIEHF, EurErg
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Qualifications

Accreditations

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.

Brunel University (Sept 2005 – April 2008)

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 1999 – June 2004)

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*-

Computer Skills

MS Office

MS Visio

MS Project

Adobe Illustrator

Adobe Photoshop

A wide range of digital prototyping tools

HTML CSS

IBM Rational DOORS

A wide range of CAD/CAM package

Awards

2018 – *Human Factors and Ergonomic Society (HFES) User Centred Design Award*, for the Elekta Unity MR Linac

2018 – *IF Design Awards*, for the Elekta Unity MR Linac and the BD Libertas Patch injector

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.

Publications

I am a passionate about pushing the boundaries of human factors and design and keen to share my experiences and ideas in order to engage in meaningful conversations across social media, magazine articles, and more formal peer-reviewed academic press.

I have published a number of internationally recognised books (10), journal papers (50+), conference papers (50+) and book chapters (6), addressing Human Factors and design, alongside a wide range of magazine articles. I have delivered a number of keynote lectures at international conferences, I have also devised and presented workshops, teaching others to use the techniques I have developed. A full list of formal publications is available at www.sociotechnic.com/publications along with links to more informal articles

<http://www.sociotechnic.com/articles>

I have a strong interest in helping to support the next generation of designers and ergonomists. I have been invited to deliver guest lectures and seminars at a range of universities and colleges (Loughborough, Imperial, University of Oxford).

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 as a Design Engineer. In 2005, I was invited to return to Brunel University, taking up the full-time role of Research Fellow in the Ergonomics Research Group, and studying part-time for a PhD in Human Factors and Interaction Design. In March 2009, I founded Sociotechnic Ltd – an independent consultancy applying human factors tools and techniques across a wide range of industries and safety critical systems. In 2012, I joined DCA, one of the world's leading design consultancies, as their head of research.

DCA Design International (July 12 – Present)

I currently head up the research team at DCA working across all of DCA's four sectors (Medical & Scientific, Transport, Consumer, and Industrial Commercial). The role involves conducting high quality research with a strong emphasis on translating research findings into product improvements. As part of multidisciplinary teams, I have been involved in the design of a wide range of products, from toothbrushes to trains and medical devices. Key projects include, the design three trains (cabs and saloons), automobiles and aircraft, medical devices (radiotherapy equipment, injection devices, smart medical devices, scientific equipment), consumer goods (toothbrushes, audio systems, vacuum cleaners, kitchens) and commercial products (personal protective equipment, fire extinguishers, alarm systems).

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*

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.