

Dr Daniel Paul Jenkins, BEng, MEng, PhD, MErgS

British Citizen
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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

I am a member of the Institute of Ergonomics & Human Factors (formally the Ergonomics Society), Human Factors and Ergonomics Society (HFES), and the HFES Europe Chapter.

I am a fully trained six-sigma green belt.

Awards

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

2008 – *The Ergonomics Society President's Medal*, Awarded to the HFI DTC for significant contribution to original research.

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

2004 – *The AutoDesk Award for design innovation*, awarded for my Masters thesis addressing automotive lateral collision avoidance.

Computer Skills

I am confident in the use of the following software

packages:

MS Office

MS Visio

MS Project

Adobe Illustrator

Adobe Photoshop

Adobe Flash

HTML / Adobe Dreamweaver

A wide range of CAD/CAM packages

Publications

I have published a number of internationally recognised books, journal papers, conference papers and book chapters, 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. A full list of publications is available at 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 Solutions 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 and consider myself a champion for its implementation.

Sociotechnic Solutions Limited – St Albans, UK (Mar 09 – Present)

Sociotechnic Solutions 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. System development is considered more than training, product development, or Human Machine Interface (HMI) design. A holistic approach is taken, considering the functional, structural, social, and physical aspect of the domain in question. By expanding the analysis beyond the individual and subsystem to consider the team, organisation and the wider domain, additional possibilities for system optimisation are exposed – leading to flexible systems, equipped to cope with complex dynamic environments. Key projects include:

- Human factors scoping study for a nuclear submarine control room – Rolls Royce
- Evaluation of a maintenance support software for fighter jets – BAE Systems AEI
- Evaluation and guidance on the use of Social Network Analysis tool – BAE Systems ATC
- Integrated Human Factors support for a project addressing UAV control – BAE Systems AEI

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

The Ergonomics Research Group (ERG) conducted and disseminated research on cognitive ergonomics in various application domains. As a Human Factors and Design specialist, I worked on a project with the Ministry of Defence for a consortium called the Human Factors Integration Defence Technology Centre (HFI DTC). The project involved the implementation of Human Factors principles and advice within the Ministry of Defence. The work conducted ranged from research looking forward twenty-years into the future, to the evaluation of products and services currently in operational use. Key projects include an evaluation of the BOWMAN command and control system and design guidance for a helicopter mission planning tool. My role within the HFI DTC required project management, presenting to the customer and large international audiences, training others in approaches developed, as well as establishing and maintaining international collaboration. Alongside my work for the HFI DTC, I was also involved with a number of smaller 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 civilian 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. For a nine-month placement, I worked within the Package Engineering department conducting ergonomic assessments of future vehicles and engaging in research including an ergonomic investigation to establish 'why drivers sit as they do' in the modern automobile. I also worked in manufacture and project management.