



## DR STUART BURGE

Stuart was recruited by GEC in 1998 to exploit his knowledge of systems engineering and quality improvement to help the company implement Six Sigma. Since then Stuart has been actively involved in helping several companies successfully deploy both Six Sigma Process Improvement (DMAIC) and Design For Six Sigma for which he is a Master Black Belt.

In 2000 Stuart together with Stephen Walsh and John Hughes formed the consultancy company Burge Hughes Walsh.

In his earlier career Stuart was employed by British Aerospace (now BAE SYSTEMS), where he conducted research into the design of advanced multivariable flight control systems. He obtained his doctorate in 1984 and continued working for BAE as an aerodynamicist until 1985. In 1985 he joined CAP Scientific as a systems engineer, where he was part of the successful bid team for the Trident submarine Command and Communications system (at that time the biggest single systems engineering project in the UK). Later he became the engineering team leader on the design and implementation of high integrity nuclear reactor control systems.

Stuart returned to work for British Aerospace on a jointly funded project with the University of Salford. This work was concerned with the development of approaches to error free system design.

In 1989 he obtained a lectureship in Engineering at Lancaster University with the purpose of teaching students proper engineering. During this period Stuart was involved in research and consultancy in quality improvement and systems design.

Since leaving Lancaster University he has worked with a large number of companies including GPT, ALSTOM, Marconi, BAE SYSTEMS, MBDA, AMS, Rolls-Royce, Bookham Technologies, E2V Technologies, Cooper Standard Automotive and Network Rail, Pilkington, and Vodafone. All of this work has been concerned with project-based improvement and system design.

Stuart's expertise covers improvement activities such as Six Sigma and also engineering design that includes systems engineering and Design for Six Sigma (DFSS). In helping companies implement DFSS he has actively facilitated several design teams through the DFSS process enabling them to concentrate on good customer focused engineering rather than the process and tools.

Stuart has strong links with academic institutes and is a Visiting Fellow of the Universities of Lancaster and Loughborough. Stuart has published over 40 technical papers, journal articles and has recently published his first text book on intelligent Systems Design. He is currently writing a second on systems engineering.