

# Dr Roderick Chapman FIET

## Résumé – April 2017

Roderick Chapman is an independent consultant software engineer. He specialises in the development of safety- and security-critical systems, from requirements engineering, through architectural design and implementation, to verification, audit and assessment.

Following graduation from the University of York, Rod joined Praxis (now Altran UK), and contributed to many of the company's keynote projects, rising to the role of principal engineer for software process and design. He also led the programming language and verification research group at Praxis, leading the technical development, training, sales and marketing of the SPARK product line. More recently, Rod turned his attention to software process, working on merging the discipline of traditional high-integrity processes with more agile approaches such as Scrum, and the philosophy of the Lean Engineering Movement. As part of this work, Rod became the first SEI-certified Personal Software Process (PSP) Instructor in the UK and led the roll-out of the PSP approach within the company's CMMI processes and appraisal.

Rod is a regular speaker at international conferences, and is widely recognized as a leading authority on high-integrity software development, programming language design, and software verification tools. In 2006, he was invited to become a Fellow of the British Computer Society. In 2011, Rod was the joint recipient of the inaugural Microsoft Research Verified Software Milestone Award for his contribution to the Tokeneer project.

In February 2015, Rod was appointed Honorary Visiting Professor in the Department of Computer Science at the University of York.

## Education and Qualifications

- |      |   |
|------|---|
| 2005 | SEI-Certified PSP Instructor  |
| 1995 | DPhil in Computer Science, University of York. "Static timing analysis and program proof".          |
| 1991 | MEng (Hons) 1 <sup>st</sup> Class in Computer Systems and Software Engineering, University of York. |

## Professional Affiliations

Fellow of the IET (2015), Member of the ACM (2014), Fellow of the British Computer Society (2006), Chartered Engineer (1998)

## Employment

- |                         |   |
|-------------------------|---|
| February 2015 – present | Honorary Visiting Professor, Department of Computer Science, University of York.                              |
| June 2014 – present     | Independent consultant and engineer.  |
| 2006–May 2014           | Principal Engineer with Altran UK.  |
| 2001–2006               | Senior Engineer with Praxis High Integrity Systems.   |
| 1997–2001               | Software Engineer with Praxis Critical Systems.   |
| 1995–1997               | Senior Programmer with Praxis plc., Bath, UK  |
| 1991–1995               | Research Associate at the British Aerospace Dependable Computing Systems Centre at the University of York, UK |

## Personal Details

Address for correspondence: 65 Holcombe Close, Bathampton, Bath BA2 6UP.

Telephone: +44 (0)7787 155978

E-mail: rod@proteancode.com