



Professor Martin Henson

PROFILE

Senior academic manager and consultant, specializing in Higher Education strategy, management, accreditation, audit, curriculum design and development, and international collaborations. In demand as a keynote speaker, consultant and capacity builder on the international scene. A professor of Computer Science, with over 100 publications, attracting over US\$1 million in research funding over the last three years. Currently leading on International Strategy at the University of Essex - a top ten university in the UK and THE "Top 20 under 50" in the world.

OVERVIEW

Professor Henson is Dean for International Affairs and a Professor of Computer Science at the University of Essex - as such he has responsibility, working with others, to develop and implement the University's International Strategy. The strategy aims to further internationalize the university, developing beneficial, reciprocal relationships in education and research, with students, academic and professional colleagues, faculties, schools, departments, and academic institutions across the world. The emphasis is on opportunities leading to mutual benefits and new understanding. Martin is constantly engaged in discussing new international academic collaborations in research and teaching. He also has considerable experience in curriculum design in Higher Education, both within and outside the UK, and in external examining and accreditation in Higher and Further Education. He has worked as a consultant for several Ministries of Higher Education and universities, internationally, undertaking academic reviews, institutional analysis, developing accreditation standards, and leading strategic planning exercises. His academic work concerns the area of Formal Methods for software engineering, in particular the design and use of logics of specification and program development.

EXPERIENCE

DEAN FOR INTERNATIONAL AFFAIRS, UNIVERSITY OF ESSEX, UK - 2009 - PRESENT

Responsible for the development and implementation of international strategy across the institution. Reporting directly to the President on matters concerning international collaborations in research, education, curriculum, international student experience, student mobility, and international external funding.

HEAD OF SCHOOL, COMPUTER SCIENCE AND ELECTRONIC ENGINEERING, UNIVERSITY OF ESSEX - 2000 - 2007

Responsible for over 100 faculty members, administrative and technical staff and over 700 students. Responsible for local and international student recruitment, development and implementation of research strategy, the curriculum and all resources.

CONSULTANT COMMISSIONER, COMMISSION FOR ACADEMIC ACCREDITATION, MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH - 2007

Reporting to the Director of the Commission, forming and leading international teams of academic experts for the purposes of institutional audit and program accreditation.

INTERNATIONAL CONSULTANT - 2003 - PRESENT

A variety of international consultancy advice and development activities over 10 years. More than 20 institutional audits and more than 60 program accreditation visits in many countries, including for the OAAA in Oman, the CAA in the UAE and the NCAAA in the KSA. Other work in Sweden, the West Indies, Jordan, Kuwait, India, and Indonesia.

PROFESSOR OF COMPUTER SCIENCE, UNIVERSITY OF ESSEX - 2003 - PRESENT

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Formerly assistant and associate professor (lecturer and senior lecturer in the UK) of computer science, promoted on the basis of research contributions to formal methods for software engineering.

VISITING PROFESSOR, UNIVERSITY OF WAIKATO, NEW ZEALAND - 2004 - PRESENT

Appointed on the basis of extended research collaborations between the University of Essex and the University of Waikato.

HONORARY PROFESSOR, KING ABDUL AZIZ UNIVERSITY, SAUDI ARABIA - 2011 - PRESENT

Appointed on the basis of extended research collaborations, curriculum development and capacity-building activities between the University of Essex and the King Abdul Aziz University.

EDUCATION

- I. University of Southampton: BSc (Hons) Physical Electronics (1976)
- II. University of Reading: PGCE (Merit) Physics and Computer Science (1978)
- III. University of Essex: MSc (Distinction) Computer Science (1981)

RECENT KEY ACHIEVEMENTS

- I. Established multi-lateral *Global Alliance* of international universities at the University of Essex.
- II. Appointed Dean for International Affairs at the University of Essex, UK.
- III. Seven keynote addresses in the last three years.
- IV. Principal Investigator on research project on Intelligent Environments (US\$1 million)
- V. Edited, with Dines Bjorner, a 626 page European Association for Theoretical Computer Science Monograph on Logics for Specification Languages, January 2008
- VI. Published, a 109 page monograph chapter on the Logic of the specification language Z, 2008
- VII. Led the School of Computer Science and Electronic Engineering at the University of Essex, between 2000 and 2006
- VIII. Accredited more than 60 degree programs and audited 20 universities and colleges in the GCC.
- IX. Led Strategic Planning project for Ministry of HE in UAE (Commission for Academic Accreditation).
- X. Developed and launched Capacity-building Training Courses for GCC clients in Curriculum Development, Research Strategy and PhD Program development.

RECENT ACADEMIC ACHIEVEMENTS

RECENT EXTERNAL FUNDING

- I. ScaleUp, Research Project, £400k, December 2010 - December 2014
- II. 4 x PhD fees + EPSRC-level stipends for 4 years. £375k, November 2011 to October 2015
- III. Capacity training, £28k, July 2011
- IV. LEADHER Capacity-building PhD programs, International Association of Universities, £10k, March 2012 to February 2013
- V. Research Capacity building – Nigeria, £35k, 2011 - present
- VI. Capacity training, £28k, July 2012

RECENT PUBLICATIONS (2011-12)

- I. Henson, M. C. et al, "A formal model for space-based Intelligent Environments", Proceedings 7th International Conference on Intelligent Environments, pp 74-79, 2011.
- II. Henson, M. C. et al "Towards Simple and Effective Formal Methods for Intelligent Environments", 8th International Conference on Intelligent Environments IE'12.

- III. Henson, M. C., et al, "Dynamic Profile-Selection for zSlices Based Type-2 Fuzzy Agents Controlling Multi-User Ambient Intelligent Environments", IEEE International Conference on Fuzzy Systems, 2012.
- IV. Henson, M. C. et al "FollowMe: a Bigraphical Approach", 2nd International Workshop on the Reliability of Intelligent Environments (WoRIE '12). Paper to appear as chapter in edited collection (IOS Press).
- V. Henson, M. C. et al "Towards FollowMe User Profiles for Macro Intelligent Environments", 1st Workshop on Large Scale Intelligent Environments (WoLSIE '12). Paper to appear as chapter in edited collection (IOS Press).

BOOKS

- I. "Elements of functional languages", Blackwell Scientific Publications, Oxford, 1987 (434 pages)
- II. "Logics for formal specification languages", Springer, EATCS monograph, 2008 (with Bjorner, D., 650 pages)

KEYNOTES (2010-12)

- I. "Global challenges through research", at the 2011 Leadership Foundation Summit "Leading Internationalization: Raising our Game", London, 2011.
- II. "Strategic approaches to relationships; snapshots from the UK and India", Leadership Foundation "Internationalization Workshop", London, 2011. Other workshop contributor Surandan Das, Vice Chancellor, University of Calcutta.
- III. "Sustaining International Developments", Higher Education Futures Forum, Neil Stewart Associates, London, May 2011. Other workshop contributor David Lock, Director of International and UK Projects, Leadership Foundation.
- IV. "Building Sustainable International Partnerships", British Council UKIERI, 2nd UK/India Leadership Development Program, Delhi, 2010.
- V. "Workshop on Strategic Planning", 1st Conference of the Arab Network of Quality-Assurance Agencies in Higher Education, Abu Dhabi, 2011.
- VI. "Approaches to Audit and Accreditation in developing HE Systems: a comparison", 1st World Summit on Accreditation, New Delhi, India, April 2012
- VII. "iEducation@Essex", 3rd APTIKOM Conference, Hong Kong, March 2012

RECENT CONSULTANCY ACTIVITIES (2007-12)

ACCREDITATION AND AUDIT

Extensive experience of institutional audit and academic program accreditation, especially in the GCC, and the UAE in particular. Worked for the CAA in the UAE, the OAAA in Oman and the NCAAA in KSA. Currently engaging in around 10 accreditation activities a year with 5 accreditations and 1 audit scheduled in the Fall of 2012.

INTERNATIONAL STANDARDS DEVELOPMENT

A member of the team that developed the 2007 Standards for Licensure and Accreditation for the Ministry of Higher Education in the United Arab Emirates, and contributed to revision of these standards in 2010-11.

ORGANIZATIONAL DIAGNOSIS AND STRATEGY DEVELOPMENT

Led the Strategic Plan Project as author and facilitator for the Commission for Academic Accreditation in 2008 and contributing to the revision in 2012.

Worked with private university in the UAE on an organizational diagnosis and the development of a strategic recovery plan.

CURRICULUM DEVELOPMENT AND OTHER CAPACITY BUILDING

Various projects in Africa (Nigeria, Botswana and Tanzania) and in the KSA, developing new undergraduate and graduate curricula, establishing PhD Programs, creating national and international networks of excellence in entrepreneurship, and in internationalized education, including the innovative use of technology. Expertise in "*Flipped Classroom*" approaches to technology-supported education.