

AUSTRALIAN UNIVERSITY TEACHER OF THE YEAR 2009 UNIVERSITY OF SOUTH AUSTRALIA

DISCIPLINE

Electrical and
Electronic Engineering
Computer Engineering

RESEARCH AREAS

Internet of Things (IoT)
Wireless sensor networks
Digital Systems
Integrated circuit design
Biomedical instrumentation

▶ [linkedin.com/in/mahfuzaziz](https://www.linkedin.com/in/mahfuzaziz)

BACKGROUND

Professor Aziz has over 32 years of experience in research, teaching, curriculum design, community engagement and leadership in the areas of Electrical, Electronic and Computer Engineering. At UniSA, he was discipline leader of Electrical & Electronic Engineering (EEE) between 2013-2015, academic director of common first year, engineering (2007-2012) and program director of computer systems engineering (1999-2007). He is internationally recognised for developing industry-relevant curricula using Project-Based Learning (PBL). He has provided leadership for systematic review of curriculum, industry feedback and professional accreditation. He has been a member of UniSA's Grants & Awards Panel since 2008, was an elected member of Academic Board 2008–2013, and Vice Chancellor's nominee on the Reconciliation Action Plan (RAP) Steering Group (2013).

IMPACT ON LEARNING & TEACHING

Professor Aziz led teaching and learning teams at UniSA involving staff from five schools across the Division of IT, Engineering and the Environment. The faculty-wide leadership he provided led to enhanced student engagement through practice-based and career-focused approaches. His initiatives have had university-wide adoption/impact including initiatives to identify and support students at risk, to continually evaluate and improve the student experience, and to introduce systematic reflective practice throughout degree programs. He provides leadership internationally as an assessor of overseas engineering qualifications.

IMPACT ON CAREER

Professor Aziz believes the application process for the Award provided him with the discipline to collect the evidence and impetus that led to, and strengthened his case for, converting his Acting Associate Professor role in 2009 to a continuing one. The added profile of the Award led to a range of invitations and leadership responsibilities. By 2015 Mahfuz was successful in applying for promotion to full Professor. Prior to the Award, he had a range of learning and teaching leadership roles and international collaborations, however he believes that the Award gave him added credibility leading to regular invitations from renowned institutions nationally and internationally to provide expert assessment on various academic matters. Consequently, he feels confident in taking on more strategic roles that can have long lasting impact.

PROFESSOR SYED MAHFUZUL AZIZ



CURRENT ROLE

Mahfuz Aziz is a professor of Electrical & Electronic Engineering at the University of South Australia (UniSA). He teaches courses in digital logic design, integrated circuit design, computer organisation and design. He fulfils many leadership roles and has successfully led academic teams in the development of innovative and stimulating teaching and learning approaches. He was Acting Dean of Teaching & Learning and member of the Academic Promotion Panel for the Division of IT, Engineering and the Environment.

WHAT THE AWARD HAS MEANT

Enhanced visibility | Invitations locally and internationally | Greater Institutional expectations | Credibility

MAJOR ACHIEVEMENTS

- 2017-** Leading collaborative research projects
- 2018** funded by the defence sector;
- 2016-** Leading Electronics & Information
- 2017** Processing aspects of industry funded multidisciplinary research on smart technologies for water quality and organic waste management;
- 2015** As Discipline Leader of EEE, successfully led the professional accreditation of EEE programs with commendations;
- 2013-** Led the redevelopment of UniSA's EEE
- 2015** curriculum implementing a new Project-Based Learning (PBL) strategy;
- 2010-** Chief Investigator and Project Leader of an
- 2014** ARC Grant in biomedical instrumentation;
- 2010-** Led multi-disciplined T&L Priority
- 2011** Project on the development of graduate capabilities, and an ePortfolio project in 1st year engineering.

NETWORKS

AAEE | EA | Institute of Electrical and Electronics Engineers (USA)