
Name and title: Dr Rami M.A. Al-Dirini

Current position: Senior Lecturer in Biomedical Engineering

Qualifications: BSc (Eng)(Hons) *University of Jordan*, PhD *University of South Australia*, Grad Cert (Research Commercialization) *University of South Australia*

Membership of professional bodies:

Australia and New Zealand Orthopedic Research Society (ANZORS)
International Society of Prosthetics and Orthotics (ISPO)

Recent academic appointment record (last 10 years):

Senior Lecturer in Biomedical Engineering, Flinders University (since 2020)
Research Fellow, Flinders University (2018 – 2020)
Research Associate, Flinders University (2014 – 2018)
Research Assistant, University of South Australia (2010 – 2014)

Contributions to educational development:

Topic coordinator and lecturer at Flinders University for:
Finite Element Methods (ENGR7961) Since 2019
Biomechanics (ENGR2732/8732) 2020
Lecturer for Physiological Measurements (ENGR3741), Flinders University (since 2020)
Adj Lecturer for Biomechanical Engineering (ME4101 and ME7044), Adelaide University (2014, 2018–2020)
Contributed to the development of video content of CAD modelling as part of the Engineering Design (ENGR), Flinders University (2016 - 2018)
CAD Instructor for Engineering Design (ENGR), Flinders University (2016 - 2018)

Field of engineering research and publication count:

Biomedical Engineering and Biomechanics: 14 journal articles, 1 book chapter, 3 conference papers and 20+ conference presentations.

Previous industry appointments: N/A

Collaboration and consulting with industry:

Collaborations

- University of Southampton (UK) – on amputee biomechanics
- Cardiff University (UK) – on sitting biomechanics and DVC
- Flinders Medical Centre and Brown University (USA) – on hand biomechanics
- U of Adelaide and Queensland University for Technology – on knee biomechanics

Consulting:

Amplitude Australia PTY LTD, DePuy Synthes

Other relevant professional activity:

Examiner for ARC

Reviewer for several scientific journals

Name and title: Dr Nasser Asgari

Current position: Course Coordinator, EEE and Robotics
Academic Integrity Officer, Engineering
Lecturer, EEE, Teaching Specialist

Qualifications: BSc (Eng), MSc (Eng), PhD Adelaide

Membership of professional bodies:
IEEE, AAEE

Recent academic appointment record (last 10 years):

Course Coordinator, EEE and Robotics (since 2009)
(formerly referred to as Director of Studies)
Teaching Specialist, Level B, EEE (since 2019)
Lecturer, Level B, EEE, 1999 – 2018
Academic Integrity Officer, Engineering (since 2021)

Contributions to educational development:

A significant contribution to the proposal and development of the
Robotics Engineering degree at Flinders in 2007.
Contribution to the ongoing curriculum design, review, and significant
changes for the EEE and Robotics degree

Field of engineering research and publication count:

Robotic Systems, Interprocessor Communications,
People detection in disaster zones
9 publications

Previous industry appointments:

Technical manager, Rizpardazan Electronic and Computer Company,
Tabriz, Iran, 1988 - 1995
Consultant to Electronic and Computer Department of the Heavy
Industry Research Centre (HIRC), and the Iran Diesel Engine
Manufacturing Company (IDEM), Tabriz, 1988 -1993

Collaboration and consulting with industry:

Lead role in the concept study for "Automated Materials Handling
System" for two interstate window manufacturing companies, in
collaboration with SAGE, a local automation company located at
Tonsley

Name and title: A/Prof Russell SA Brinkworth

Current position: Associate Professor of Autonomous Systems

Qualifications: PhD; Grad Cert (Higher Ed); BEng (Biomed) Hons; BSc (Life Science)

Membership of professional bodies:

Recent academic appointment record (last 10 years):

2019 – cont	Associate Professor of Autonomous Systems, College of Science and Engineering, Flinders University
2014 - 2019	Program Director, School of Engineering, the University of South Australia
2011 - 2019	Senior Lecturer, School of Engineering, the University of South Australia

Contributions to educational development:

- Engineering curriculum development at UniSA
- Multiple publications and conference attendance in the higher education field
- Multiple teaching research grants, specifically focused on student transition into university

Field of engineering research and publication count:

- 51 Scopus reported publications
- FoR: 4007, 4603

Previous industry appointments:

Collaboration and consulting with industry:

Multiple research grants/collaborations from industry over the following time periods

2021 – 2023	Lockheed Martin Australia
2020 – 2023	Thales
2020 – 2021	Hospital Research Foundation
2019 – 2020	Exablaze (Cuvos)
2018 – 2023	DST Group
2018 – 2021	Department of Defence
2018 – 2021	National Institute for Forest Products Innovation
2016 – 2019	Container Deposit Systems
2016 – 2019	SAGE Automation

Other relevant professional activity:

Name and title: Associate Professor John J. Costi

Current position: Research Section Lead - Engineered Systems

Qualifications: BE (Hons)(Mechanical) *Adelaide*, PhD *Flinders*

Membership of professional bodies:

Fellow, Engineers Australia (Biomedical, Mechanical Colleges)
Fellow of International Orthopaedic Research (FIOR) at the International
Combined Orthopaedic Research Society (ICORS)

Recent academic appointment record (last 10 years):

Associate Professor (since 2015)

Contributions to educational development:

Contributed to the development of Mechanical Engineering as Course
Coordinator for Mechanical and Materials Engineering (2014 – 2020)

Field of engineering research and publication count:

Biomedical Engineering:
56 journal papers, 2 refereed full conference papers, 2 book
chapters, 162 conference abstracts. Google h-index is 22

Previous industry appointments:

NA

Collaboration and consulting with industry:

Austofix, LifeHealthCare, Swemac Innocation (Sweden), AO Research
Foundation (Davos, Switzerland), Evolution Surgical, Relax Retractors,
Amplitude SAS, Depuy Synthes (A J&J company)

Other relevant professional activity:

Director, Spine Society of Australia (since 2016)
Editorial Secretary – Spine Society of Australia Limited (since 2020).
Editorial Board Member (Associate Editor) – Journal of Biomechanical
Engineering (since 2019)
Member – International Society for Study of the Lumbar Spine (since 2017).
Founding Member, Journal Advisory Review Board - Journal of Orthopaedic
Research-Spine (since 2017)
Director – Flinders Surgical Lab (2016 – present).
Chair – Flinders Surgical Lab Advisory Board, College of Science and
Engineering, (2018 – present).
Co-Chair – School of Anatomy Governance Committee (2018 – present).
Convenor - Biomedical Engineering and Health Technologies Sub-
committee (2020 – present).
Research Integrity Advisor for the College of Science and Engineering (2018
– present).
Research Section Lead Member – Technical Advisory Group Committee,
College of Science and Engineering (2019 – present).

Name and title: Professor Samuel P. Drake

Current position: Professor of Electronic Systems and Security

Qualifications: BSc(Physics)(Hons) *Melbourne*, PhD *Adelaide*, Grad. Dip Scientific Leadership *Melbourne*

Membership of professional bodies:
Australian Institute of Physics

Recent academic appointment record (last 10 years):
Professor in the College of Science and Engineering (since 2021)
Adjunct Lecturer Department of Physics Adelaide University (since 2013)

Contributions to educational development:
Designed and taught "Applications of Relativity" to higher degree students at Adelaide University
Supervision of masters and PhD students at the University of South Australia and Adelaide University

Field of engineering research and publication count:
Note that many of my publications are relate to Australian defence technologies and are not approved for public release, they are not included in the following count: 20 journal papers, 13 conference papers, 9 others. Google Scholar h-index is 13

Previous industry appointments:
Senior Research Scientist, Defence Science and Technology Group (DSTG)
Group Leader Electronic Warfare Battle Management Group, DSTG

Collaboration and consulting with industry:
Developed geolocation algorithms for the EA-18G Growler Fighter Jet with DSTG, US navy, Boeing and Raytheon.
Assessed the vulnerability of Australian Defence Force platforms to deliberate or accidental disruption of GPS
Worked with US armed forces to develop a system for Unmanned Airborne Vehicles (UAVs) to autonomously form teams and geolocate RF emitters (typically radars, GPS jammers, or communications devices).
Worked with Defence Research and Development Canada developing geolocation and tracking algorithms

Other relevant professional activity:
US patent S. P. Drake, B. Anderson, and C. Yu, "Method and System for Deinterleaving Signals," United States of America Patent US8,102,297, 24 January 2012.
Editorial advisory board *American Journal of Physics* 2012-2015
Awarded a "Defence Science Fellowship" in 2011 to work at Durham University, UK 2011

Name and title: Dr Paul Gardner-Stephen

Current position: Senior Lecturer

Qualifications: BSc(Comp Sci), PhD

Membership of professional bodies:
N/A

Recent academic appointment record (last 10 years):
Flinders University, 2010-present

Contributions to educational development:
Delivery of Computer Networks, Network Engineering, Operating Systems, Open Source Software Practice, Network Administration and Professional Skills topics.

Field of engineering research and publication count:
Resilient Telecommunication Systems
Humanitarian Technology
68 publications (Google Scholar)

Previous industry appointments:
Flinders University (Computer and Network Systems Administrator) (1998-2010)

Collaboration and consulting with industry:
Safety from Space (Satellite and security protocol and design)
DEWC (Satellite and security protocol and design)
New Zealand Red Cross (Resilient Telecommunications Solutions)
UN World Health Organisation (Collaborating Centre, Resilient Telecommunications)
UN World Food Programme (Resilient Telecommunications, COVID19 monitoring)
Serval Project Inc. (Resilient Telecommunications)
MEGA Museum of Electronic Games and Art (Digital Archaeology)

Name and title: Dr Aliakbar Gholampour

Current position: Lecturer of Civil Engineering

Qualifications: PhD (Civil-Structures) University of Adelaide, AU
MEng (Civil-Structures) University of Tehran, Iran
BEng (Civil) Babol Noshirvani University of Technology, Iran

Membership of professional bodies:
Associate editor of Frontiers in Build Environment

Recent academic appointment record (last 10 years):
Lecturer, Flinders University, since Jul. 2020
Research Fellow, University of Melbourne, Jul 2019 – Jul 2020
Research Associate, University of South Australia, Feb 2019 – Jul 2020

Contributions to educational development:
Development of Civil Engineering topics at Flinders University, e.g.
Structural Engineering 1, Advanced Concrete Analysis and Design

Field of engineering research and publication count:
Structures and structural materials, Advanced construction materials
2 Book chapters, 53 journal articles, 16 conference articles, 2
magazine articles
Google Citations: 1179, h-index: 20, i-index: 32

Previous industry appointments:
Senior Civil Engineer, Perlite Construction Company, 2012 – 2015

Collaboration and consulting with industry:
Collaboration with different companies in construction industry for
research activities, e.g. Metecno (Bondor), Pipemakers, prefabAUS,
Schiavello

Other relevant professional activity:
Editorial activities for journals of Polymers, Fibers, and Frontiers in
Build Environment
Reviewer of different journals, e.g. Composite Structures, Engineering
Structures, Construction and Building Materials, Journal of Cleaner
Production, ...

Name and title: Dr Kristy Hansen

Current position: Senior Research Fellow

Qualifications: PhD, BEng (Mechanical)

Membership of professional bodies: Australian Acoustical Society, The Acoustical Society of America

Recent academic appointment record (last 10 years):

- 2012 – 2015: Research Associate, The University of Adelaide.
- 2015 – 2017: Lecturer, Level B, Flinders University
- 2018 -2021: DECRA Researcher, Level C, Flinders University.

Contributions to educational development:

- Revised technical content of Fluid Mechanics (ENGR 2751/8801) to ensure that it was up to date with current practice.
- Developed curriculum and designed all lectures, tutorials, laboratory classes and demonstrations for Applied Acoustics (ENGR 7861).
- Developed curriculum for Computer programming for Engineers (ENGR 1721) and designed all lectures, workshops, and laboratory classes.

Field of engineering research and publication count:

- FOR code: 091301 - Acoustics and Noise Control (excl. Architectural Acoustics)
- Academic books (3)
- Book chapters (3)
- Thesis (1)
- Peer-reviewed journal articles (24)
- Published conference proceedings (31)
- Professional engineering reports and government submissions (8)

Previous industry appointments: N/A

Collaboration and consulting with industry:

- Collaboration with Hayes Mackenzie and other international acousticians to develop a new technical standard (PT 61400-11-2: Measurement of wind turbine noise characteristics in receptor position).
- Contribution to the international standard ANSI S1.18. Method for Determining the Acoustic Impedance of Ground Surfaces.
- Collaboration with Flinders Medical Centre and Australian Sleep Health Foundation to improve understanding about sleep disturbance in hospital environments.
- Co-supervision of Honours student working on BAE systems project related to acoustics and vibration.
- Co-supervision with BAE systems of 2 projects for Diploma of Digital Technologies.

Other relevant professional activity:

- Court appearance as expert witness on wind farm noise

Name and title: Dr Reza Hashemi

Current position: Senior Lecturer
Course Coordinator for Mechanical and Materials Engineering

Qualifications: BEng(Hons) *Razi University*, MEng *University of Tabriz*
PhD *Monash University*

Membership of professional bodies:

Recent academic appointment record (last 10 years):

Senior Lecturer, College of Science and Engineering, Flinders University,
(since 2016)

Lecturer, Flinders University, 2012 – 2016

Contributions to educational development:

Led the development of MEng courses in Materials and Mechanical
Engineering at Flinders University

Field of engineering research and publication count:

51 journal papers, 15 conference papers

Google h-index is 18

Previous industry appointments:

Mechanical Engineer: Mazda Motors, Body & Chassis Department

Collaboration and consulting with industry:

Collaborations with various industries such as the Australian Orthopaedic
Association National Joint Replacement Registry (AOANJRR), AML3D,
Milford Industries, Royal Adelaide Hospital.

Other relevant professional activity:

Name and title: Dr David A. Hobbs

Current position: Senior Lecturer in Rehabilitation Engineering

Qualifications: BSc(Physics), BSc(Life Sciences)/BEng(Biomedical)(Hons), PhD (Rehabilitation Engineering)

Membership of professional bodies:

Engineers Australia; the Australian Rehabilitation & Assistive Technology Association (ARATA); Australasian Academy of Cerebral Palsy and Developmental Medicine (AusACPDM); The Society for Medical & Biological Engineering (SMBE), SA; Engineers Without Borders (EWB) Australia

Recent academic appointment record (last 10 years):

Senior Lecturer in Rehabilitation Engineering (2019 – present)
Lecturer & PhD Candidate (2013 – 18); A/Lecturer & PhD Candidate (2010 – 13)

Contributions to educational development:

Topic Coordinator & Lecturer:
ENGR1711 Engineering Design (4.5 units)
ENGR7771 Rehabilitation & Assistive Technology (4.5 units)
ENGR3700/3710 Engineering Practicum / International Practicum (13.5 units)
ENGR3750 Workplace Preparation (0 units)
ENGR9403 Engineering Work Experience (0 units)
ENGR9405 Engineering Work Experience (4.5 units)
MATH3721 Mathematical Sciences Practicum (9 units)
Course Coordinator, Biomedical Engineering and Engineering Science degrees
Supervisor for Engineering Honours and course work Masters students
Supervisor for Biomedical Engineering PhD students
College Disability Academic Advisor

Field of engineering research and publication count: (since 2011 – last 10 years), **H-index = 9**

Refereed journal papers	7
Refereed conference papers	17
Refereed conference abstracts	11
International/National invited addresses	16

Previous industry appointments:

NovitaTech, the technology division of Novita, *Senior Rehabilitation Engineer* (2003 – 10) and *Rehabilitation Engineer* (2001 – 03)

Collaboration and consulting with industry:

Currently projects with Novita, Autism SA, Can:Do and Naval Asia-Pacific; have worked with SA State Government / KPMG (NDIS & Assistive Technology study)

Other relevant professional activity:

Current *National Committee on Rehabilitation Engineering* (NCRE) member

Name and title: Dr Nicholas Holyoak

Current position: Lecturer
College of Science and Engineering, Flinders University

Qualifications: BEng(Civil)(Hons), University of South Australia
PhD, University of South Australia

Membership of professional bodies:
Member, Engineers Australia
Member, Institute of Transportation Engineers
Committee Member, Australian Institute of Transport Planning and Management (AITPM)

Recent academic appointment record (last 10 years):
Research Fellow, University of South Australia (2004-2014)
Research Fellow/Lecturer, Flinders University (2014-present)

Contributions to educational development:
Development and refinement of delivered material into a range of topics, adopting best teaching practice and technologies for effective teaching and learning.

Field of engineering research and publication count:
33 conference and journal articles
15 Research Reports

Previous industry appointments:
Transport Modeller: Maunsell McIntyre (Aus) and Transport Analyst: WSP Group (UK).

Collaboration and consulting with industry:
Various research activity with private, government and other agencies including SA DPTI, NSW BTS, QED Transport Solutions, World Bank, Economic and Policy Services Pty Ltd.

Other relevant professional activity:
Active committee member with the AITPM's Transport Modelling Network, Engineers Australia's Transport Australia Society and the Australasian Transport Research Forum Technical and Organisational committees.

Name and title: Dr Amin Mahmoudi

Current position: Lecturer, College of Science and Engineering

Qualifications: BSc, Shiraz University, Iran
MSc, Amirkabir University of Technology, Iran
PhD, University of Malaya, Malaysia

Membership of professional bodies:

Member (MIEAust), CPEng, The Institute of Engineers Australia
Member (MIET), CEng The Institution of Engineering and Technology
Senior Member, The Institute of Electrical and Electronics Engineers

Recent academic appointment record (last 10 years):

Lecturer, Flinders University, South Australia, Australia (since July 2015)
Research Associate, University of Malaya | Kuala Lumpur, Malaysia (Sep 2013 – Apr 2014)
Lecturer, HELP College of Arts and Technology | Kuala Lumpur, Malaysia (Jan 2011 – Jan 2013)

Contributions to educational development:

I have been involved in curriculum and pedagogy development of the topics in electrical engineering programs. It included reviewing and improving the topic syllabi and the relevant practical experiments.

Field of engineering research and publication count:

Electrical machines and power electronics, renewable energy, electric traction systems and electrical drives for industrial applications
50 journal papers, 45 conference papers, 1 book chapter,
Google h-index is 16, with 1020 citations

Previous industry appointments:

I had worked as an electrical designer for a fan manufacturing company, developing axial-flux permanent-magnet synchronous motors for the ceiling, table, and large industrial fans. I designed the electric motor for the commercial Haiku Fan (<https://www.bigassfans.com/au/fans/haiku/>).

Collaboration and consulting with industry:

I am working with the electric machine company, Rototech (<http://www.rototech.com.au/>) and design and consultancy firm (<https://www.mymodular.com>) in Adelaide.

Other relevant professional activity:

Name and title: Dr Carl Mooney

Current position: Senior Lecturer
Course Coordinator: BCS and BIT
College Academic Integrity Officer

Qualifications: BSc(Comp)(Hons) *Flinders University*, PhD *Flinders University*

Membership of professional bodies:

Recent academic appointment record (last 10 years):

Senior Lecturer (Teaching Specialist), College of Science and Engineering
(2019 – 2021)
Lecturer, School of Computer, Science, Engineering and Mathematics
(2003, 2019)

Contributions to educational development:

Leading role in the redevelopment of the suite of BIT courses

Field of engineering research and publication count:

N/A

Previous industry appointments:

N/A

Collaboration and consulting with industry:

N/A

Other relevant professional activity:

Name and title: Associate Professor Egon Perilli

Current position: Associate Professor in Biomedical Engineering

Qualifications: PhD Bioengineering, *University of Bologna, Italy, 2006*
MSc Physics *University of Bologna, Italy, 2001*

Membership of professional bodies:

President (2018-2021) Australian & New Zealand Orthopaedic Research Society (ANZORS); Secretary 2015-2018
Executive, Australian & New Zealand Society of Biomechanics (ANZSB)
Member, European Society of Biomechanics (ESB)

Recent academic appointment record (last 10 years):

Senior Lecturer (2015-2019), Biomedical Engineering, Flinders
Senior Research Fellow (2011-2014), Biomedical Engineering, Flinders
Affiliate Lecturer, Adelaide Medical School, The Univ. of Adelaide (2011-)
Honorary Fellow, The Univ. of Melbourne (2014-)

Contributions to educational development:

Medical Physics ENGR7707, topic coordinator and lecturer since 2015. I developed, coordinated and lectured this topic in CSE since its inception
Biomaterials ENGR7702, topic coordinator and lecturer since 2015. I re-developed the topic aligning the lectures
Biomedical Instrumentation ENGR2742 and ENGR8742 GE, topic coordinator and lecturer since 2016; includes live demos of biomedical devices (for example: X-ray imaging, CT scanner, ultrasound)

Field of engineering research and publication count:

Biomedical Engineering:
52 peer-reviewed journal papers, 90 conference abstracts, 1 book chapter
Google h-index is 21, citations 2135

Previous industry appointments:

Application Scientist, Skyscan-Bruker (Belgium), micro-CT manufacturer
Research Scientist, Rizzoli Orthopaedic Institute, Bologna (Italy)

Collaboration and consulting with industry:

Micro-X Ltd, Tonsley; mobile CT scanner project
DePuy (USA); combining micro-CT and mechanical testing of implants
Consultancy for Adelaide Microscopy on micro-CT imaging
Consultancy for Thomson Scientific (VIC) (micro-CT distributor)

Other relevant professional activity:

Instrument Leader and Supervisor of the micro-CT (Nikon HTH 225 ST Computed Tomography) Laboratory in Flinders University at Tonsley, which I set up thanks to a successful ARC LIEF (CIA Perilli LE180100136); currently the largest cabinet micro-CT system in Australia

Name and title: Associate Professor Kenneth Pope

Current position: Head of Electrical and Electronic Engineering

Qualifications: Doctor of Philosophy, Bachelor of Engineering (1st class honours), Bachelor of Mathematical Sciences

Membership of professional bodies: Engineers Australia, Institution of Electrical and Electronic Engineers; Engineers Without Borders

Recent academic appointment record (last 10 years): Associate Professor at Flinders 2010-

Contributions to educational development: In the last 16 years, I've held a variety of education leadership roles in the school/College: Course Coordinator (all engineering awards, biomedical engineering only, at different times), Associate Dean (Academic), Teaching Program Director (Engineering, Design and Information Technology). Over this time I've contributed to a major curriculum rewrite across all engineering topics, including the adoption of a common first year, and contributed to the introduction of both mechanical and civil engineering degrees to the suite of awards that Flinders offers.

Field of engineering research and publication count: Signal Processing (49 refereed journal articles, 19 refereed conference publications), Engineering Education (1 refereed journal article, 2 refereed conference publications)

Previous industry appointments: Cooperative Research Centre for Sensor Signal and Information Processing (1994-1996)

Collaboration and consulting with industry: n/a

Other relevant professional activity: 3 engineering education competitive grants totalling \$110,000; Australian Science and Mathematics School (2004-2011, "critical friend" during its start-up, sitting on committees, running "University Modules" to its students, mentoring students undertaking Extension Studies / Research Project); reviewing for journals and conferences; 14 technical research grants totalling over \$2M.

Name and title: Dr Hongyu Qin

Current position: Lecturer of Civil Engineering

Qualifications: BEng, MEng, PhD *Griffith*

Membership of professional bodies:

Member, Engineers Australia
Member, Australian Geomechanics Society
Member, International Society for Soil Mechanics and Geotechnical Engineering
Member of International Society for Rock Mechanics
Member of International Association for Engineering Geology and the Environment
Member, Australasian Association for Engineering Education

Recent academic appointment record (last 10 years):

Lecturer, College of Science and Engineering, Flinders University (since 2015)
Sessional senior research fellow, Griffith School of Engineering, Griffith University (2014)
Lecturer, Griffith School of Engineering, Griffith University (2011-2013)

Contributions to educational development:

Conceive and lead the development and teaching of geotechnical engineering in the civil engineering program at Flinders since 2015

Field of engineering research and publication count:

Including publications in geotechnical and civil engineering:
28 journal papers, 18 conference papers, 2 reports
Google h-index is 11

Previous industry appointments:

Collaboration and consulting with industry:

Various research and consultancy activities including with Starfin Australia, SA Government, Mitsubishi Motors, AGL other various industry partners.

Other relevant professional activity:

Name and title: Dr Shaowen Qin

Current position: Associate Professor of Software Engineering
Course Coordinator: BEng (Software)

Qualifications: PhD, Northwestern University, U.S.
MSc, Illinois Institute of Technology, U.S.
Meng & BEng, Tsinghua University, P.R.C.

Membership of professional bodies:
Member, IEEE

Recent academic appointment record (last 10 years):
Senior lecturer, Software Engineering (since 2005)
Associate Professor, Software Engineering (since 2020)

Contributions to educational development:
Director of Studies, Information Technology and Software
Engineering (2010-2015)
Course Coordinator: BEng (Software) (since 2020)

Field of engineering research and publication count:
26 publications in decision analytics, software, and healthcare process
related areas,
36 publications on mechanics of materials and structures.

Previous industry appointments:
Senior Staff Engineer, Motorola Global Software Group, U.S.
Senior Staff Engineer, Motorola Singapore Software Centre,
Singapore
Principal Staff Engineer, Motorola Australia Software Centre,
Adelaide

Collaboration and consulting with industry:
Flinders Medical Centre, Southern Adelaide Local Health Network,
Sunshine Coast Hospital and Health Service

Other relevant professional activity:

Name and title: Giselle Rampersad, Professor

Current position: Professor in Innovation

Qualifications: PhD in Innovation and Technology Management (University of Adelaide, Australia), Master in Science in Internet Systems and e-Business (Computer Science Department, Durham University, UK), BSc in Management Studies (University of the West Indies) and Graduate Certificate in Education (Higher Education) (Flinders University, Australia).

Recent academic appointment record (last 10 years): Professor 2020 to present, Associate Professor 2016-2019, Senior Lecturer 2011 – 2016 and Lecturer 2009-2011.

Contributions to educational development: For over 12 years, she has served as Course Coordinator for several Bachelors and Masters degrees and contributed to the curriculum development of those programs. Most recently, in 2020, she led the curriculum development for the award winning [Diploma of Digital Technologies](#) which upskilled 51 shipbuilders from BAE Systems Australia. The program received national recognition and won the [Training and Mentorship Program](#) of the Year for 2020 in the Australian Defence Industry Awards by Defence Connect. It also received international recognition being awarded a Chairman's award by BAE Systems which is a globally prestigious award within the company. From 2021 the program will be offered to SMEs, primes and high school teachers including female STEM teachers to grow the pipeline of students into engineering by building capability in CAD, design, robotics and electronics and inspire the next generation of engineers to meet the needs across industries and also for mega defence projects. From 2021, she leads further curriculum development for a new model for the Diploma as a part-time offering with 3 hours online per week and 2 weeks of intensive face-to-face labs each year to cater for full-time working participants, in SA and inter-state.

Field of engineering research and publication count: Engineering nec 039999 e.g. A ranked Scimago Q1 publications in outlets such as Journal of Engineering and Technology Management. Publication count: 81.

Previous industry appointments: Prior to academia, she worked in various industries including oil company Schlumberger in the Information Solutions segment.

Collaboration and consulting with industry: She is currently the Program Director for the industry partnered Diploma of Digital Technologies which upskills employees from BAE Systems and defence SMEs and leads various major defence research programs with [Naval Group Pacific](#), DST Group and the [Australian Army](#). Current Naval Group Pacific projects include 'mobile machining robot prototype project' (\$220,000) and 'Investigating the use of exoskeletons in shipbuilding' (\$110,000). Recent DST Group projects include 'Design of exploratory artificial intelligent systems for interactive sense making in collaboration with human decision makers, 2020' (\$78,336).

Other relevant professional activity: Partners with the Defence Teaming Centre for SME participation in the Diploma of Digital Technologies, enabled through a Skilling Australia Defence Initiative (SADI) grant in 2021. Participation by BAE Systems into the Diploma was also enabled by a \$2M grant from the Department of Education, Skills and Employment (DESE) in 2020 through the Strategic University Reform Funding (SURF) program for the 'Flinders University Naval Shipbuilding Program' which Professor Rampersad leads.

Name and title: Dr Sherry Randhawa

Current position: Teaching Program Director for Engineering and Design
Senior Lecturer in Engineering
Teaching Specialist in Engineering

Qualifications: BEng(Hons), *Adelaide*, GradDipTertEd, MEng(Research), PhD, *Flinders*

Membership of professional bodies:
IEEE member

Recent academic appointment record (last 10 years):
Senior Lecturer (since 2020)
Lecturer (2004 – 2019)
Associate Lecturer (1995 – 2004)

Contributions to educational development:
Teaching Program Director (Engineering & Design), College of Science and Engineering, 2019 –
Member of the STEM Academy at Flinders University, 2019 -
Director of Studies for Biomedical Engineering, Flinders University from 2014 - 2019.
Associate Dean (Teaching and Learning) in the School of Computer Science, Engineering and Mathematics, 2017.
Deputy Director of Studies for Biomedical, Electrical, Electronic, Robotics, Computer Systems Engineering from 2009 – 2013.
Invited Member, Flinders College of Distinguished Educators, 2011
Teaching-First-Year-Students convenor, 2004 - 2005.

Field of engineering research and publication count:
Publications in the area of image processing:

Previous industry appointments:
N/A

Collaboration and consulting with industry:
Women and Children's Hospital, FMC Biomedical Engineering, DSTG

Other relevant professional activity:
2019-2020 Chair, IEEE South Australia Section
2021- Vice-chair, IEEE SA Women in Engineering group
2021- Secretary, IEEE SA Communications and Signal Processing chapter

Name and title: Professor Karen J Reynolds

Current position: Matthew Flinders Distinguished Professor (Biomedical Engineering)

Qualifications: MA, BAHons, MSc (Oxford), PhD (Leicester), Grad Cert Tert Ed (Flinders)

Membership of professional bodies:

HonFIEAust – Honorary Fellow, Engineers Australia
Eng Exec, Engineers Australia
CPEng APEC Engineer IntPE(Aus)
FTSE – Fellow of Academy of Technology & Engineering
FAHMS – Fellow of Academy of Health & Medical Sciences

Recent academic appointment record (last 10 years):

Dean of Research, College of Science & Engineering (2017-20)
Dep. Dean, School of Computer Science, Engineering and Maths (2008-17)
Professor of Biomedical Engineering (since 2008)
Director, Medical Device Research Institute (since 2010)

Contributions to educational development:

Involved in the design of Flinders engineering programs since 1997
Awarded an Australian Learning & Teaching Council Citation 2011, for
*“teaching, supporting and inspiring students to learn, innovate and succeed
as professional biomedical engineers”*

Field of engineering research and publication count:

Field of engineering research – Biomedical Engineering (FOR code 0903)
93 journal papers, 44 conference papers, 2 book chapters

Previous industry appointments:

1994 – 1995 Research Scientist, Dept of Medical Physics, Leicester Royal Infirmary, UK

Collaboration and consulting with industry:

Founder and Director of Medical Device Partnering Program - >600
registrations of interest resulting in ~100 industry-focussed projects
Numerous research / consultancy contracts with industry and government

Other relevant professional activity:

Australian Medical Research Advisory Board (2016-21)
Australian Advisory Board on Technology and Health Competitiveness (2018-)
Board Director, Academy of Technology & Engineering (2015-20)
Chair, Health and Technology Forum, Academy of Technology & Engineering
(2014-19); Deputy Chair (2012-13)
Medical Device Evaluation Committee / Advisory Committee on Medical
Devices, Therapeutic Goods Administration (2009-21)
SA Health & Medical Industries Ministerial Advisory Panel (2019-20)
Venture Partner with MTPConnect on BTB and TTRA funding schemes

Name and title: Professor John F. Roddick

Current position: Head of Engineering
Chair of Academic Senate
Professor of Computer Science

Qualifications: BSc(Eng)(Hons) *Imperial London*, MSc *Deakin*, PhD *La Trobe*

Membership of professional bodies:
Fellow, Engineer Australia
Fellow, Australian Computer Society

Recent academic appointment record (last 10 years):
Dean , School of Computer Science, Engineering and Mathematics (2008-2017)
Professor of Computer Science (since 2000)
Head of Engineering (since 2017)
Chair of Academic Senate (since 2017)

Contributions to educational development:
Led the redevelopment of engineering programs at Flinders 2008-2017
Contributed to the strengthening of academic governance and quality assurance of internal program accreditation as Chair of Academic Senate

Field of engineering research and publication count:
Including publications in computer science:
75 journal papers, 90 conference papers, 14 edited volumes, 41 other
Google h-index is 40

Previous industry appointments:
Project leader: Sun Alliance Insurance
Project leader: Mobil Oil
Head of Administrative Computing: University of Tasmania

Collaboration and consulting with industry:
Various research and consultancy activities including with Sun Microsystems, DST Group, Power-Solutions Inc, HP Labs, rL-Solutions, Royal Australian College of Surgeons, and others including government.

Other relevant professional activity:
Expert Witness

Name and title: Professor Karl Sammut

Current position: Director, Centre for Maritime Engineering

Qualifications: BEng(Hons) University of Wales, Ph.D Nottingham University

Membership of professional bodies:

IEEE (Senior Member) (Chair IEEE South Australia Chapter 2016-2017),
IET (CEng)

Recent academic appointment record (last 10 years):

Associate Professor 2005 – 2018
Professor 2018 – current

Contributions to educational development:

Led the development of the Computer Systems Engineering, and the Maritime Engineering programs
Course Coordinator Maritime Engineering
Contributed to application process for Naval Ship Building College recognition of Flinders Engineering Programs (BEng (Maritime), BEng (Robotics) and BEng (Electronics)).

Field of engineering research and publication count:

091303 Mechanical Engineering - Autonomous Vehicles
091106 Maritime Engineering – Special Vehicles
H-index: 20
Publication count: Refereed Journals (36), Refereed Conference Papers (84), Refereed Book Chapters (7)

Previous industry appointments:

Research Assistant - British Telecom Research Labs (UK)
ST8 DST Group Maritime Division (Current 0.5 FTE)

Collaboration and consulting with industry:

DST Group, Thales Australia Underwater Systems, Thales France Underwater Systems
Naval Group France, Naval Group Pacific, Pacific Marine Batteries Defence
ASC, BAE Systems Australia, Lockheed Martin Australia, Fincantieri, Boeing Australia, Redarc.
Academia - ENSTA Bretagne, Centrale Nantes, University of Genova, Jacobs University)

Other relevant professional activity:

Flinders Lead CI for Trusted Autonomous Systems Defence CRC – Autonomous MCM (Thales, Flinders, USyd, UTS, WSU, Mission Systems, INENI).
Flinders Lead CI for ARC ITTC Naval Design & Manufacturing, (UTas AMC, Flinders Wollongong)

Name and title: Paulo E. Santos

Current position: Senior Lecturer in Artificial Intelligence and Robotics

Qualifications: BSc(Hons) in Physics *University of S. Paulo (Brazil)*,
MSc *Polytechnique School, University of S. Paulo (Brazil)*,
Master of Logic, University of Amsterdam, NL
PhD, Imperial College, London

Membership of professional bodies:

Member the Association for the Advancement of Artificial Intelligence (AAAI)

Recent academic appointment record (last 10 years):

Senior Lecturer in Artificial Intelligence and Robotics (since 2019)
Professor of AI, FEI University Centre, S. Paulo, Brazil (from 2005 to 2019)

Contributions to educational development:

Teaching and supervising research of undergraduate and graduate students

Field of engineering research and publication count:

Publications in artificial intelligence and robotics:
28 journal papers, 55 conference papers, 2 edited volumes, 17 other
Google h-index is 15 and i10-index is 28

Collaboration and consulting with industry:

Various research projects with DST Group and the Naval Group

Other relevant professional activity:

Co-chair of the forthcoming Dagstuhl Seminar 21492 - Representing and Solving Spatial Problems
Member of the CNRS- International Research Laboratory at Lot14

Name and title: Dr Anna Shillabeer

Current position: Teaching Program Director (Computing and Mathematical Sciences)

Qualifications: PhD

Recent academic appointment record (last 10 years):

July 2015 - Present

Teaching Program Director – Computing and Mathematical Sciences.
Head ICT College of Science and Engineering
Director Flinders Cisco Academy
Flinders University of South Australia

July 2012 – December 2014

Head of Department – IT/CS, RMIT University Vietnam

March 2007 – June 2011

Assistant Professor, Carnegie Mellon University, Heinz School Adelaide.

Contributions to educational development:

My development, administration and review activities have produced a set of high achieving courses with improved outcomes. I have developed and taught new Data Science, Operating Systems, Computer Networks, Cisco and Enterprise Security topics, supervised 15 computer science and digital health projects for Honours and Masters and 4 PhD candidatures since 2015. Course Coordinator for the following courses: Digital Health Systems honours, Masters in Information Technology including a specialisation, Masters in Computer Science including two specialisations, and I lead development and delivery of all online offerings. Led innovation projects to develop a set of agreed, consistent teaching standards, practices and FLO interfaces for my TP. I designed templates for online learning and a student engagement framework, now integrated into all topics. Leading a review of all assessment to ensure appropriate assessment is provided, to reduce over-assessment and be confident that we are able to evidence students meeting learning outcomes. Led the design and approval of two new courses (Bachelor of Computer Science (AI) and a Certificate in Cybersecurity) and have expanded our Masters offerings to meet global industry drivers (Masters in Information Technology (Networks and Cybersecurity), Masters Computer Science and MCS (Data Science) and (AI). As TPD, I review and approve all SAMs and grade changes, evaluate credit articulations and requirements for non-standard applications. As an Education Committee member, I engage to review and approve all topic and course changes across College and resolve issues in teaching quality. I am currently responsible for developing solutions for resource gaps, poorly designed assessment, inconsistency in FLO pages and disjointed delivery of topics across different semesters. I am one of 4, leading STEM 4.0, a major curriculum review of all College topics and offerings by end 2021 to identify areas for improvement in College teaching design and delivery to improve quality and graduate outcomes. I am leading the investigation and design of a delivery framework for block teaching which has demonstrated success in an early trial.

Previous industry appointments:

January - December 2015

Asian Development Bank - Vietnam

International Consultant - Higher Education Accreditation Expert

September 2013 – November 2016

Avenir Health - USA

Team Leader – Vietnam

Technical Assistant

April 2011 – June 2012
Ernst & Young, Adelaide, Australia.
Senior Consultant – Health & Education

Collaboration and consulting with industry:

Co-Chair Flinders CSE Industry Advisory Board
Board Member – TAFE SA
Board Member – CMU Adelaide
TEQSA Panel of Experts

Other relevant professional activity:

- I am the most senior Teaching Specialist in the TP and I developed a mentoring and support processes for new academic staff. I supervise all Teaching Specialists in my TP and managing professional development, promotion applications and career advice.
- I have engaged on all interview panels and selection committees for CMS and 2 Engineering recruitment panels. I provided input to the writing of PD's for the new CMS positions.
- As a member of the International Committee I am leading a number of initiatives to improve the learning environment for our international Masters e.g. developing a welcome pack for international students and developing a series of cultural activities with student collaboration to improve wellbeing.
- On the Student matters, Show Cause committee I review, and advise on, all poor performance cases across College.
- My Coursework Recruitment Working Group initiative for the introduction of an industry focused cybersecurity Certificate to provide pathways into Bachelor degrees is showing positive traction (1st intake ranked #7 in the university). I also developed an activity toolbox to enable a rapid response to external requests to visit and to attract potential students.
- Through the Academic Workload Consulting Group I am responsible for identifying and managing resourcing problems and gaps, proposing solutions to ensure all teaching is covered appropriately, allocating all topics to academics and negotiating new and/or changed allocations.

Name and title: Professor Youhong Tang

Current position: Professor of Mechanical and Materials Engineering

Qualifications: BEng (Hons) *Wuhan Univ Technol*, MEng *Wuhan Univ Technol*, PhD *Hong Kong Univ Sci Technol*

Membership of professional bodies:

Fellow, Royal Society of Chemistry, UK
Fellow, Royal Australian Chemical Institute, Australia
Project Management Professional, Project Management Institute, US

Recent academic appointment record (last 10 years):

Lecturer, Senior Lecturer and Associate Professor of Mechanical and Materials Engineering, Flinders, 2012-2019
Research Leader, Institute for NanoScale Science and Technology, Flinders, 2012-
Management Committee, Medical Device Research Institute, Flinders, 2019-
Professor of Mechanical and Materials Engineering, Flinders, 2020-

Contributions to educational development:

Led establishing materials engineering research and significantly contribute establishing materials engineering and maritime engineering teaching program at Flinders, 2012-
Contributed to the strengthening of mechanical engineering, biomedical engineering, maritime engineering, and civil engineering research at Flinders, 2012-

Field of engineering research and publication count:

Including publications in mechanical, materials and maritime engineer:
>200 journal papers, 14 book chapters and 3 edited books
Google h-index is 43

Previous industry appointments:

NA

Collaboration and consulting with industry:

Various research and consultancy activities including Nano 6C Pty Ltd, RPC Pipe Systems, Puratap Water Filters and others.

Other relevant professional activity:

Editorial board member of Applied Composite Materials, Springer (IF=2.199, 2020-); Aggregate, Wiley (2020-); Biosurface and Biotribology, IET (2020-2022); Molecules, MDPI (IF=3.098, 2018-); Polymers, MDPI (IF=2.935, 2018-); Advances in Materials Science and Engineering, Hindawi (IF=1.372, 2018-)

Community Board Member of Materials Chemistry Frontiers, RSC (IF=6.788) (2019-)

Name and title: Strategic Professor Mark Taylor

Current position: Strategic Professor of Biomedical Engineering
Discipline leader of Mechanical Engineering

Qualifications: BEng (Hons) University Wales, College Cardiff, MSc, University of Dundee, PhD University of London.

Membership of professional bodies: European Society of Biomechanics

Recent academic appointment record (last 10 years):

Professor of Bioengineering, University of Southampton (2005-2012)
Head of Bioengineering Science Research Group, University of Southampton (2005-2012)
Strategic Professor of Biomedical Engineering (since 2012)
Discipline leader of Mechanical Engineering (since 2012)
Associate dean for research, School of Computer Science, Engineering and Mathematics (2014-2017)
Health Research Section Leader, College of Science and Engineering (2017-2019)

Contributions to educational development:

Developed and refined the delivery and assessment of first year topic (ENGR1732) to address high failure rate

Field of engineering research and publication count:

121 peer reviewed journal publications in biomedical engineering
Google h-index is 42

Previous industry appointments:

Research and development engineer, Finsbury Development Ltd.
(1997-2000)

Collaboration and consulting with industry:

DePuy Synthes Research Consortium (since 2000)
ARC Centre for Medical Implant Technologies (2019-2023)
Various research projects with Austofix, 360 KneeSystems, Zimmer

Other relevant professional activity:

Name and title: Dr Joseph (Pepe) Velasquez

Current position: Senior Lecturer in Design Innovation

Qualifications: **MSIM Masters of Science in Information Management 2012**
Arizona State University W.P.Carey School of Business
BSID Bachelor of Science in Industrial Design 1990
Arizona State University the DESIGN School Tempe Arizona US

Membership of professional bodies: IDSA Industrial Design Society of America
past Arizona Chapter President 2017

Recent academic appointment record (last 10 years):

Program Head of Industrial Design 2018-2020
Clinical Assistant Professor Industrial Design 2007- 2020 Arizona State University
Director of Mediphor Product Design www.mediphor.com 2005-2021

Contributions to educational development: Arizona State University #1 in Innovation at US Largest University
ID Program Head 2018-2020

Field of engineering research and publication count: currently IOT Telemedicine and Nosocomial Infection mitigation and research in surgical equipment design development and sterilization control.
GOOGLE SCHOLAR link: <https://scholar.google.com/citations?user=txL3lRkAAAAJ&hl=en>

Product Development Management _ Tertiary Education Strategies_ IP Consultant _ Surgical Equipment
Materials selection and QC_ Human Factors_ Sustainable Design Engineering_ Emerging Technology
Research _ User Experience _ IOT telemedicine_ Interdisciplinary Team Strategies_ Many Multiple Patents

Previous industry appointments:

Program Head Director of Industrial Design Arizona State University 2018-2020
Director of Mediphor Design 2005-2020

Collaboration and consulting with industry:

Medtronic, Inc. Multiple Patient Monitoring devices and control systems within the CRDM Group
Minneapolis IT Solutions
OrthoScan Low Dose X-Ray **Orthopedic surgical scanner** and patient imaging device
University of Denver Diabetic self-pressuring therapy Boot with smart logic pressure management
Medical Sterilization Control past 4 years of research based product development
Thoratec Corporation I ABBOTT new concept LVAD Artificial Heart Bridge Therapy **medical heart system**
Motorola Medical Device Research a concept portable laptop computer blood analysis system
BMW, General Motors, Vehma Canada vehicle concepts and future direction staff designer
JOHN DEERE construction and agricultural and product development equipment
Xyron, Inc. Introduction of 4 Award winning adhesive transfer products to market inside of one year
HEIL Environmental Products a division of Dover Industries a maker of **large scale refuse transfer systems**
3M, construction tools, **3M Adhesive Technologies** adhesive transfer and heat shrink systems
SANRIO Corporation children's award winning adhesive labeling device_ Hello Kitty division
DAEWOO, LG, Samsung consumer electronics many multiple devices including laptops, VCR, telephones
Taser International 8+ years in NPI designing some of the **most successful product launches to date for Taser**
ST Micro Electronics Medical Patient monitoring devices and data depository devices: Cloud based data retrieval.

Other relevant professional activity: Advisor to ASU EDSON Awards and **Venture Devils Mentor and Evaluator**

Name and title: Dr. Thomas Vincent

Current position: Senior Lecturer of Civil Engineering
Director of Studies for Civil Engineering

Qualifications: B.Eng(Civil)(Hons) *Uni of Adel*, M.Phil *Uni of Adel*, Ph.D *Uni of Adel*

Membership of professional bodies:
Professional Member, Engineers Australia
Student Liaison Officer, Institution of Structural Engineers

Recent academic appointment record (last 10 years):
Casual lecturer of Civil Engineering (2015)
Lecturer of Civil Engineering (2016-2019)

Contributions to educational development:
Creation of the Environmental Engineering degree
Ongoing Development of the Civil Engineering degree as Director of Study
Manage and coordinate Work Integrated Learning for all Engineering disciplines.
Academic Lead for Work Integrated Learning in Civil Engineering

Field of engineering research and publication count:
Materials and Structural Engineering
20 journal papers, 18 conference papers
Google h-index is 10, Google All Citations is 1166

Previous industry appointments:
No previous industry appointments

Collaboration and consulting with industry:
Various research activities to test, optimize and develop novel materials or structural elements.
The two main collaborators are Inconmat Australia and Seels Technology.

Other relevant professional activity:
Expert Witness Assistant

Name and title: Dr Frank M. Washko

Current position: Senior Lecturer

Qualifications: B.S., M.S., Ph.D., M.B.A., Wayne State University; J.D., Georgetown University Law Center.

Membership of professional bodies: Institute of Electrical and Electronics Engineers (IEEE); American Society of Mechanical Engineers (ASME); Society of Automotive Engineers (SAE); California State Bar Association; Washington State Bar Association; Oregon State Bar Association, U.S. Patent and Trademark Office.

Recent academic appointment record (last 10 years): Senior Lecturer, Flinders University (2020 – present); Associate Professor, Saint Martin's University (2014-2020).

Contributions to educational development: I review papers for conferences and journals every year; I am required to complete about 50 hours of continuing legal education every 3 years.

Field of engineering research and publication count: Medical devices, engine research, engineering entrepreneurship, and engineering education. Approximately 10 papers in the last 7 years.

Previous industry appointments: Director of Engineering, Quadradyne Technologies; Attorney, Quinn Emmanuel Urquhart & Sullivan; Attorney, Goodwin Procter; Attorney, Kirkland & Ellis; Director of Engineering, Tyche Ursidaen; Summer Associate, Skadden, Arps, Slate, Meagher & Flom; Lead Development Engineer, Smith + Nephew Orthopaedics; Project Engineer, Ford Motor Company; Product Engineer, Chrysler Corporation / DaimlerChrysler.

Collaboration and consulting with industry: Consultant to the Society of Automotive Engineers (SAE) on their continuing education programs.

Other relevant professional activity: Associate Editor, Society of Automotive Engineers (SAE) International Journal of Engines.

Name and title: Professor Adrian D. Werner

Current position: Professor of Hydrogeology

Qualifications: BEng (Civil) (Hons) *CQU*, DipBus *Open Learning Institute*, PhD *Queensland*

Membership of professional bodies:

Member, International Association of Hydrogeologists

Member, American Geophysical Union

Member, South Australian Hydrological Society

Recent academic appointment record (last 10 years):

Professor of Hydrogeology, School of the Environment/College of Science and Engineering, (since 2014)

Associate Professor in Hydrogeology, School of the Environment (2009-2014)

Contributions to educational development:

Led development of the first online postgraduate courses in hydrogeology (2009-2010)

Chair, Higher Degree Committee, School of the Environment (2015-2016)

Course director, Bachelor of Environmental Engineering (2020-present), Bachelor of Science (Environmental Hydrology and Water Resources; 2014-2016), Groundwater Hydrology Postgraduate degrees (2008-2012)

Field of engineering research and publication count:

Publications in Hydrogeology and Water Resources:

139 journal articles, 45 book chapters, 125 conference articles/abstracts, 45 commissioned technical reports

Google Scholar h-index is 42

Previous industry appointments:

Water Resources Engineer (1990-2006), Queensland Government

Collaboration and consulting with industry:

Various research collaborations and consultancy activities, including Qld and SA Governments, Lower Burdekin Water, Environmental Defenders Office, SA Water, BHP, Secretariat of the Pacific Community, Eyre Peninsula Landscape Board, amongst others.

Other relevant professional activity:

Expert Witness, Associate Editor of *Advances in Water Resources* (since 2012), Australian Research Council Future Fellow (2016-2020)

Name and title: Dr Amir Zanj

Current position: Lecturer in Mechanical Engineering (Scholarly Fellow)

Qualifications: BEng (Mechanical), MEng (Aerospace-Propulsion) K. N. Toosi
University of Tech, PhD in Engineering Flinders University

Membership of professional bodies:

Member of American Institute of Aeronautics and Astronautics (AIAA)

Recent academic appointment record (last 10 years):

Lecturer in Engineering (Scholarly Fellow)- 01/01/20 to current

Associate Lecturer in Engineering 13/08/18 to 31/12/22

Casual Academic in Engineering 27/03/12 to 12/08/18

Contributions to educational development:

Collaboration in development of system engineering topics

Feasibility of development of Aerospace course at Flinders Uni

Field of engineering research and publication count:

Thermo-Fluid Mechanical and Aerospace engineering, Complex
system dynamics and control, 12 journal Article, 15 Conference
paper, Google scholar h-index: 8.

Previous industry appointments:

R&D researcher at Space System Research Center (SSRC) 2004-20012

Technical teacher at IKAO Automotive industry 2006-2009

Collaboration and consulting with industry:

Consultation to Balco Hay Industry on hay decontamination machine

Collaboration with Task Automation on smart slasher

Consultation to Cornerstone R&D Discoveries on Fluid mechanics in
rotary machines

Collaboration with My modular on new connector development

Consultation to N.F. McDonnell & Sons wood industry

Collaboration with Wind-X Energy on development of a new wind
turbine

Name and title: Professor Rocco Zito

Current position: Professor and Head of Civil Engineering

Qualifications: BEng(Hons) University of South Australia, PhD *University of South Australia*

Membership of professional bodies:

Member, Engineer Australia

Member, Transport Australia

Recent academic appointment record (last 10 years):

Leader, Transport Systems, School of Natural and Built Environments and
Barbara Hardy Institute, University of South Australia (2011 – 2014)

Professor and Head of Civil Engineering, Flinders University (2014-Present)

Contributions to educational development:

Course Coordinator Civil Engineering Undergraduate 2014-2019

Course Coordinator Civil Engineering Post - Graduate 2014-2019

Field of engineering research and publication count:

Total Count 118:

10 journal papers, 75 conference papers, 4 edited volumes, 29 industry
reports etc

Google h-index is 11

Previous industry appointments:

Freelance consultant with various leading Engineering firms

Collaboration and consulting with industry:

Various research and consultancy activities with Federal, State and Local
Australian Government. Lead CI on many research projects involving
industry in the areas of Intelligent Transport Systems and sustainable
transport.

Other relevant professional activity:

Former Chair of Engineers Australia's SA Branch Transport Committee

Former Chair, Australasian Driverless Vehicle Initiative, Scientific Research
Group

Australian Academy of Technological Sciences Early Career Fellowship

Invited Speaker

ADVI Driverless Vehicle Summit, Adelaide, 2017,18,19

Australasian Fleet Managers Conference, Melbourne, 2011

Australia Electric Vehicle association Conference, 2010

Engineers Australia's Transport Group Seminars on Intelligent Transport
Systems and Sustainable Transport

Current position: Lecturer in Electrical Engineering

Qualifications: MEng(Research, PhD Adelaide)

Membership of professional bodies: ACEN (Australia Collaborative Education Network)

Recent academic appointment record (last 10 years):

2012 - date Lecturer, Flinders University

Contributions to educational development:

- Fully self-developed topics ENGR2702/ENGR8802 Electrical Circuits and Machines/GE and ENGR3861/ ENGR9761 Electrical Energy Systems topics (including lecture notes, practicums and tutorials)
- Improved topic materials by introducing optimization of solutions and incorporating the use of advanced features of Inventor Program into the assessment of ENGR2752/ENGR9801 Mechanics of Machines/GE
- Introduced 3-D visual teaching tools such as the cross-sectional cut-offs of DC, Synchronous and 3- phase Induction Machines (in delivering ENGR2702/ENGR8802 Electrical Circuits and Machines/GE and ENGR3861/ENGR 9761 Electrical Energy Systems/GE) and mechanical bearing systems (in delivering ENGR2752/ENGR9801 Mechanics of Machines/GE)
- Provided a high level of engineering guidance to a technical team in choosing the best value for money electro-machinery to establish the Electrical Teaching Laboratory and saved considerably on the equipment by self-developing and establishing 11 different practicums (6 of which have been used for delivering ENGR2702/ENGR8802 Electrical Circuits and Machines/GE, and 5 additional for delivering ENGR3861/ENGR9801 Electrical Energy Systems/GE)
- Introduced in the second year of the electrical, electronic and robotics curriculum the top IEEE journal template as a standard practicum report template to be used by undergraduate and postgraduate students to improve research and writing quality of the final year project thesis
- Supervised numerous undergraduate and postgraduate final year project students, one of which had won the best CSE Master thesis prize for the Electrical and Electronic Stream in 2016
- After taking over the CSE WIL Program coordination in S2 2016, successfully established numerous administrative processes to improve the streaming of the placement and work experience programs
- In 2016, for the first time in previous school history, I have organized a discipline-based EXPO event that proved to be very satisfying for students, academics, parents, industry partners and placement providers
- Since 2017 our College managed to place more than 120 students per year into the Industry Based Placements across 92 external organizations, while ENGR3750 Work Placement Preparation 0-unit topic has reached a record of over 209 enrolments this year.
- Consistently achieving excellence in teaching based on Student Teaching Evaluations
- In 2017, won \$10, 000 ACEN (Australia Collaborative Education Network) grant (supported by Engineers Australia) in collaboration with Assoc. Prof. Giselle Rampersad to fund a research project to assess the innovation and employability skills of all Tonsley based placement students

Field of engineering research and publication count:

Engineering Technical Publications: 5, Engineering Education Publications: 3

Previous industry appointments:

1.5 years	Systems Engineer	Sage Automation (Adelaide-Australia)
3.5 years	Power Systems Designer	Dalekovod (Zagreb-Croatia) Electrical Power Industry Company
3 years	Research and Development Engineer	Rade Koncar (Zagreb-Croatia) Electro-technical Research Institute

Collaboration and consulting with industry:

- Due to the high level of teaching and student assistance involved through Placement Program and Final Year Projects, a high employment rate of the most recent Flinders University graduate has been accomplished
I was supervising seven Final Year Project students in 2020 and all of them gain fulltime graduate positions in 2021 as presented per organization by Table below:

Sage Automation (Adelaide-Australia)	4
ElectraNet	1
SA Power Networks	2