

Dr. D. Harmanto CEng MIED FHEA

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Research Interests

Vehicle Aerodynamics • Healthy Building • Hydrodynamics (War Ship Design) • Finite Element Analysis • Design Optimisation • Product Development • Natural Material Development • Wind Turbine Application • Renewable Energy • Lean Management

Key Points / Recognition

Lecturer of the Year 2017 – 2018 | College of Engineering and Technology, University of Derby

Programme Leader for BEngs, Derby University (2007 – 2017): Improved number of students achieving good honours degrees by over 30%; consistently ensured that NSS based value for BEng (Hons) Mechanical Engineering was above 87% and that employability statistics for graduates into graduate level jobs was at 90%

Managing Director | International Indonesian Scholars Association for UK (2018 – 2020)

Honourable & Advisory Member | Lecturer Association of the Republic Indonesia (since 2016)

Invitee - 'World Class Indonesian Scholars' Program | Ministry of Research, Technology and Higher Education, Government of Republic of Indonesia – 11th – 18th August 2018 (Only 47 invited)

Invitee - 'World Class Indonesian Scholars' Program | Ministry of Research, Technology and Higher Education, Government of Republic of Indonesia, 17th – 22nd December 2017 (Only 38 invited)

Invitee - 'Visiting World Class Professors' Program | Ministry of Research, Technology and Higher Education, Government of Republic of Indonesia, 17th – 23rd December 2016 (only 40 invited)

Funding

KTP: Academic Supervisor for the Gardner Aerospace (£125K) - 2014; Academic Supervisor for the Eclipse Automotive Solution (£165K) - 2016; Lead Supervisor for the Penny Hydraulic (£165K) - 2017

KEI: Academic Leading for Eclipse Automotive Solution (£45K) - 2016; Academic Leading for S3Process Ltd (£45K) - 2017

Newton Fund: Submitted for Research Link 2015 (£45K); Submitted for Institutional Links for Renewable energy 2017 (£150K); Submitted for Institutional Links for Ship Design and Development 2018 (£75K); Submitted for NERC for Predicting the flooding in Jakarta using CFD 2018 (£350K)

InnovateUK: Submitted for Open Call July 2018 (£130K)

Consultancy: Engineering Analysis on Oil Filtration for Hydrotechnique (£8.5K) - 2009; CFD analysis for the hanging basket for Amberol Ltd. (£3.5K) - 2009; SolidWorks Short Course with West Notts College (£2.5K) - 2008; SolidWorks Simulation and FEA theory Short Course with Garrandale Ltd. (£7.5K) - 2008

Career History

June 2020 – Present Associate Professor in Aeronautical Engineering, De Montfort University.

Feb 2001 – May 2020 Derby University, Derby

Jan 2019 – Present Programme Leader for Degree Apprentice for Roll Royce (Mechanical Engineering and Material Engineering)

Sept 2018 – Jan 2019 Acting Programme Leader of BEng (Hons) and MEng for Motorsport Engineering

Sep 2017 – Aug 2018 Assistant to Deputy Head of Mechanical and Manufacturing Engineering

Sep 2016 - Present Lead of Research Cluster Advanced Design and Simulation

Oct 2016 – Apr 2017 Acting Deputy Head of Mechanical and Manufacturing Engineering

Aug 2007 – Jul 2017 Programme Leader for BEngs

Aug 2004 – Aug 2007 Programme Leader - BEng (Hons) Product Design Engineering

Feb 2001 – 2004 Programme Leader - Motorsport Technology

Apr 1999 – Sep 2000 Project Engineer | PADTEK Ltd (First Automotive), Coventry

Oct 1998 – Mar 1999 P/T Research Assistant in ZEFREDO | Coventry University

Mar – Apr 1998 P/T Lecturer - Design (2nd year undergraduate students) | Coventry University

Mar & Nov 1996 P/T Lecturer - Computer Aided Design (MSc) | Coventry University

Research

PhD Supervision: 4 PhD students

PhD Examiner: 2 PhD and 1 MPhil Internal Examiners

Keynote Speaker: Master 2017 – Indonesia National Seminar with the theme ‘Indonesia Maritime’. Keynote on the Frigate Ship for Indonesia Sea Defence – PPNS, Indonesia (2017)

Book Review: SolidWorks Simulation for Absolute Beginners by CRC Press/Taylor and Francis Group (2016)

Journal Advisory Board: Research Script (international journals IJRE, IJREE, IJRCS, IJRME & IJMh) (2014)

Journal Reviewer:

- Proceedings of the Institution of Mechanical Engineers part A – Z (mainly review paper for the Design, Computational Fluid Dynamics and Finite Element analysis [mostly part C, D and E]) (Since 2009)
- International Journal of Robotics and Mechatronics (Since 2010)
- Journal of Ocean, Mechanical and Aerospace – Science and Engineering (Since 2011)

Conference Reviews:

- Technical Committee of IEOM conference 2019
- Reviewer for International Conference on Engineering Application, Physics and Sciences (ICEAPS2017)
- Reviewer for International Conference on Science, Technology and Humanity, Yogyakarta
- Reviewer for 1st International Conference on Materials, Energy and Manufacturing (1st ICMEM 2016)
- Reviewer for 2nd International conference in Science, Technology and Humanity (Since 2015)
- Chair session on 12th QiR International Conference, Bali, Indonesia (2011)

Education

PhD in Automotive Engineering Design and Manufacture | Coventry University, Coventry, UK (1995 – 1999)

MSc: Automotive Engineering Design and Manufacture | Coventry University, Coventry, UK (1994 – 1995)

Ir. (B.Eng. Hon): Mechanical Engineering | National Institute of Technology, Malang, Indonesia (1987 – 1993)

Professional Memberships

- Member of Committee of Education and Training, Institution of Engineering Designers, 2011, Member of Institution of Engineering Designers
- Member of Committee of Automobile Division (up to May 2016) East Midland, Institution of Mechanical Engineering, (current Fellow member application)
- Fellow Member - Higher Education (2010)