



Dr. Izwan Ismail

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Academic Qualification

PhD in Mechanical Engineering (2013)

Dublin City University

Thesis: Stress Resistance and Fluid Particle Separation of Magnetorheological Fluid in Squeeze Mode.

Master of Education TVET (2003)

Kolej Universiti Teknologi Tun Hussein Onn

Bachelor of Engineering (Hons) in Mechanical Engineering (Manufacturing) (2002)

Kolej Universiti Teknologi Tun Hussein Onn

Brief Profile

My primary research interests lie in the fields of smart material design and development particularly in magnetorheological (MR) materials. I am also interested in investigation of novel application of MR materials in automotive components, prosthetic devices and rehabilitation instruments. The list of interests is stated below:

- Design and development of MR materials
- Smart liquid suspension properties study
- Development of semi active damper for automotive.
- Development of smart rubber material for engine mountings.

Research Project

RDU131409 | Enhancement of Stress Resistance in Squeezed Mode MR Fluid | 17 Sept 2013 – 16 Sept 2015
| Research Acculturation Grant Scheme by Ministry of Education Malaysia | Project leader

FRGS/2/2013/SG06/UTM/02/4 | Determination of apparent yield stress of magnetorheological fluid in annular, radial and orifice flow channel under magnetic field excitation | 1 Dec 2013 – 30 Nov 2015 | FRGS | Project member

RDU1303120 | Enhancing the Electrical Discharge Machining of Metallic Reinforced Ceramic Composites | 1 Dec 2013 – 30 Nov 2015 | UMP Internal Grant | Project member

Teaching / Working Experience

Senior Lecturer | Universiti Malaysia Pahang | June 2013 – Present [Teaching courses: Technical Drawing and CAD/CAM]

Head of Program / Lecturer | Kuantan Community College, MOHE | Jan 2004 – June 2013
[Teaching courses: Engineering Drawing, CNC machining, CAD/CAM and Industrial Automation]

Part Time Tutor | Open University Malaysia | Jan 2006 - Dec 2007 | [Teaching courses: Manufacturing Technology, Strength of Materials, Engineering Safety and Final Year Project supervision]

Part Time Tutor | UTHM | Nov 2002 - April 2003 | Teaching courses: [Materials Science]