

## BRIEF CV



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### **Mohd Firdaus bin Hassan**

Senior Lecturer

Faculty of Mechanical Engineering,  
Universiti Malaysia Pahang,  
26600 Pekan, Pahang, MALAYSIA.

Tel: +609-4246250, Fax: +609-4246222, HP: 019 - 9243481

Email: [firdaus@ump.edu.my](mailto:firdaus@ump.edu.my) , [mohdfirdaushssn@gmail.com](mailto:mohdfirdaushssn@gmail.com)

### Academic Qualifications

1. Ph.D Mechanical Engineering, University of Manchester, 2017. "Nonlinear analysis of rotating machinery running on foil-air bearings"
2. M.Sc. Mechanical Engineering, UTM, 2009. "Vibration suppression of handheld tool using intelligent active force control"
3. B.Eng. Mechanical Engineering, UKM, 2005.

### Brief Profile

Currently, Mohd Firdaus bin Hassan is a senior lecturer and researcher fellow of Advance Structural Integrity and Vibration Research (ASIVR) Group at Faculty of Mechanical Engineering, Universiti Malaysia Pahang (UMP). received his B.Eng and M.Eng in Mechanical Engineering from National University of Malaysia and University Technology of Malaysia in 2005 and 2009 respectively. He received Ph.D in Mechanical Engineering from the University of Manchester in 2017. He worked as an engineer for Selangor Water Supply Company (SYABAS) for two years from 2005 until 2006. His research interest involves nonlinear dynamic/vibration analysis, rotordynamic problem, foil-air bearing technology, FBG sensors and non-destructive testing research area.

### Working Experiences / Appointment

1. June 2017 – Present Senior lecturer, Faculty of Mechanical Engineering, UMP.
2. September 2013 – September 2016 Teaching assistant at The School of MACE, University of Manchester
3. June 2009 – May 2017 Lecturer, Faculty of Mechanical Engineering, UMP
4. Dec 2006 – May 2009 Tutor, Faculty of Mechanical Engineering, UMP.

### List of Research / Project

1. RDU "Nonlinear Dynamic Analysis of Oil-Free Turbomachinery". Grant amount is RM5,500. Project No. RDU171129 (May 2017 – May 2019), Principle-researcher.
2. RDU "Nonlinear Analysis of Rotating Machinery Running on Foil-Air Bearing". Grant amount is RM20,000. Project No. RDU1703192 (June 2017 – June 2019), Principle-researcher.
3. RDU "Development of Low-Cost Pneumatic Controller for Industrial Application". Grant amount is RM25,000. Project No. RDU090376 (Jan 2009 – Oct 2010), Co-researcher.
4. RDU "Development of High Productivity Milling Tool for Chatter Suppression". Grant amount is RM26,500. Project No. RDU110305 (May 2010 – May 2011), Co-researcher.
5. RDU "Electromagnetic Actuator for Non-Contact Modal Testing in High Speed Machining". Grant amount is RM21,000. Project No. RDU110316 (July 2011 – July 2013), Co-researcher.
6. RDU "Development of Vibration-Electromagnetic Energy Harvester from Random Forced Excitation". Grant amount is RM28,404. Project No. RDU110324 (July 2011 – July 2013), Principle-researcher.