

# Universiti Tun Hussein Onn Malaysia

## Staff Profile

<b>Full Name</b>	Prof. Dr. Khalid Bin Hasnan
<b>Faculty</b>	Fakulti Teknologi Kejuruteraan
<b>Department</b>	JABATAN TEKNOLOGI KEJURUTERAAN PENGANGKUTAN
<b>Email</b>	<a href="mailto:khalid@uthm.edu.my">khalid@uthm.edu.my</a>
<b>Designation</b>	DS53 - Pensyarah Sanjung Penyelidik Utama Pusat Kecemerlangan Industri - Rel (ICOE-REL) Institut Kejuruteraan Integrasi



### Field of Expertise

<b>Field Category (KPT)</b>	TRANSPORT
<b>Field (KPT)</b>	Ground Transport
<b>Field of Specialization (KPT)</b>	Ground Transport

### Areas of Research Interest

1. Modelling and Simulation
2. Automation and Robotics
3. Railway Vehicle Dynamics

### Innovation Field of Interest

1. Automation and Robotics
2. Railway Vehicle Safety

### Academic Qualification

Year	Qualification	Institution
2006	DOKTOR FALSAFAH KEJURUTERAAN MEKANIKAL	SHEFFIELD HALLAM UNIVERSITY
1992	SARJANA KEJURUTERAAN MEKANIKAL (AUTOMOTIF)	UNIVERSITY OF SOUTHAMPTON
1985	DIPLOMA TEKNOLOGI PENDIDIKAN	UNIVERSITI KEBANGSAAN MALAYSIA
1983	SARJANA MUDA KEJURUTERAAN MEKANIKAL	UNIVERSITY OF BIRMINGHAM

### Professional Appointments

DS53 - Pensyarah Sanjung

### Management Experience

Date	Description
01/02/2021 - 31/01/2025	Penyelidik Utama Institut Kejuruteraan Integrasi , Pusat Kecemerlangan Industri - Rel (ICOE-REL)
01/11/2019 - 31/10/2024	Penyelidik Utama Institut Kejuruteraan Integrasi , Pusat Kecemerlangan Industri - Rel (ICOE-REL)
01/11/2019 - 10/10/2020	Ketua Pusat Institut Kejuruteraan Integrasi , Pusat Kecemerlangan Industri - Rel (ICOE-REL)
01/11/2017 - 31/10/2019	Penyelidik Utama Institut Kejuruteraan Integrasi , Pusat Kecemerlangan Industri - Rel (ICOE-REL)

01/11/2017 - 31/10/2019	Ketua Pusat Institut Kejuruteraan Integrasi , Pusat Kecemerlangan Industri - Rel (ICOE-REL)
01/07/2017 - 30/10/2017	Ketua Jabatan Fakulti Teknologi Kejuruteraan , Jabatan Teknologi Kejuruteraan Pengangkutan
16/05/2015 - 15/05/2016	Ketua Program Pusat Pengajian Siswazah
01/06/2014 - 31/05/2015	Ketua Program Pusat Pengajian Siswazah
01/06/2014 - 31/05/2015	Ketua Jabatan Pusat Pengajian Siswazah
16/03/2012 - 13/03/2014	Ketua Program Pusat Pengajian Siswazah
01/08/2008 - 31/07/2009	Timbalan Dekan (Penyelidikan & Pembangunan) Fakulti Kejuruteraan Mekanikal dan Pembuatan , Bahagian Pentadbiran dan Kewangan
01/05/2008 - 31/07/2008	Timbalan Dekan Fakulti Kejuruteraan Mekanikal dan Pembuatan , Bahagian Pentadbiran dan Kewangan
01/05/2006 - 30/04/2008	Ketua Pusat Pejabat Canselor , Pusat Pemindahan Teknologi (TTC)
01/09/2006 - 30/04/2008	Timbalan Dekan Fakulti Kejuruteraan Mekanikal dan Pembuatan

### Profesional Societies

Year	Description	Role	Level
01/01/2015 - 31/12/2015	The Institution of Engineers, Malaysia (IEM)	Graduate Member	Kebangsaan
01/01/2019 - 31/12/2019	The Institution of Engineers, Malaysia (IEM)	Graduate Member	Kebangsaan
26/12/2017 - 31/12/2018	The Institution of Engineers, Malaysia (IEM)	Graduate Member	Kebangsaan
01/01/2016 - 31/12/2016	The Institution of Engineers, Malaysia (IEM)	Graduate Member	Kebangsaan
01/01/2020 - 31/12/2020	The Institution of Engineers, Malaysia (IEM)	Graduate Member	Kebangsaan
01/01/2014 - 31/12/2014	The Institution of Engineers, Malaysia (IEM)	AHLI	Kebangsaan
01/01/2013 - 31/12/2013	The Institution of Engineers, Malaysia (IEM)	AHLI	Kebangsaan
01/01/2011 - 31/12/2011	The Institution of Engineers, Malaysia (IEM)	GRADUATE MEMBER	Kebangsaan
01/01/2010 - 31/12/2010	The Institution of Engineers, Malaysia (IEM)	GRADUATE MEMBER	Kebangsaan

### Teaching Experience

Year	Description	Level
2015	MDC 10203 Modelling & Simulation, Sesi 2014/15 Semester 2, UTHM, 2015	University
2014	Masters Railway CGR10403 Rolling Stock & Traction System, Sesi 2014/15 semester 1, UTHM, 2014	University
2014	MDC 10203 Modelling & Simulation, Sesi 2014/15 Semester 1, UTHM, 2014	University
2014	MDC 10203 Modelling & Simulation, Sesi 2013/14 Semester 2, UTHM, 2014	University
2013	Masters Railway CGR10403 Rolling Stock & Traction System, Sesi 2012/13 semester 2, UTHM, 2013	University
2013	MDC 10203 Modelling & Simulation, Sesi 2013/14 Semester 1, UTHM, 2013	University
2013	MDC 10203 Modelling & Simulation, Sesi 2012/13 Semester 2, UTHM, 2013	University
2013	BDD 4083 Manufacturing Control Technology, Sesi 2012/13 Semester 1, UTHM, 2013	University
2012	MDC 10203 Modelling & Simulation, sesi 2012/13 semester 1, UTHM, 2012	University

2012	MKM1102 Project Management Sesi 2011/12 Semester 1, UTHM, 2012	University
2012	Masters Railway CGR10403 Rolling Stock & Traction System, Sesi 2012/13, UTHM, 2012	University
2012	BDD 4083 Manufacturing Control Technology, Sesi 2012/13 Semester 1, UTHM, 2012	University
2011	BDD 4083 Manufacturing Control Technology, Sesi 2011/12 Semester 1, UTHM, 2011	University
2011	BDD 4083 Manufacturing Control Technology, Sesi 2011/12 Semester 2, UTHM, 2011	University
2010	BDD 4083 Manufacturing Control Technology, sesi 2010/11 semester 2, UTHM, 2010	University
2010	Concurrent and Reverse Engineering [BDD 4053], sesi 2009/10 Semester 2, Universiti Tun Hussein Onn Malaysia, 2010	University
2010	Project Management (MKM 1102), Sesi 2009/10 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2009	Project Management (MKM 1102), Sesi 2008/09 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2009	Project Management (MKM 1102), Sesi 2009/10 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2009	Computer Integrated Manufacturing (MKM 1204), Sesi 2009/10 Semester 1, Universiti Tun Hussein Onn Malaysia, 2009	University
2009	Concurrent and Reverse Engineering [BDD 4053], sesi 2008/09 Semester 2, Universiti Tun Hussein Onn Malaysia, 2009	University
2008	Concurrent and Reverse Engineering [BDD 4053], sesi 2008/09 Semester 1, Universiti Tun Hussein Onn Malaysia, 2008	University
2008	Project Management (MKM1102) , Sesi 2008/09 Sem 1, Universiti Tun Hussein onn Malaysia, 2008	University
2008	Concurrent and Reverse Engineering [BDD 4053], sesi 2008/09 Semester 1, Universiti Tun Hussein Onn Malaysia, 2008	University
2007	Concurrent and Reverse Engineering [BDD 4053], sesi 2007/08 Semester 2, Universiti Tun Hussein Onn Malaysia, 2008	University
2007	Modelling and Simulation (MKM 1003) , Sesi 2007/08 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2007	Production Operation and Analysis (MKM1123), Sesi 2007/08 Semester 1, Universiti Tun Hussein onn Malaysia	University
2006	Professional Ethics and Management (BTP3232), Sesi 2006/07 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2006	Automation and Robotics (BKM 4523), Sesi 2006/07 Semester 1, Kolej Universiti Teknologi Tun Hussein Onn	University
2006	Automation and Robotics (BKM 4523), Sesi 2005/06 Semester 2, Kolej Universiti Teknologi Tun Hussein Onn	University

## Research Grants And Contracts

Code	Title	Designation	End Date
H934	The Optimization of the Span Length and Mast Offset of the Overhead Contact Line System (OCS) for the Gemas - Johor Bahru Electrified Double Track Project.	Ahli	30/06/2023
K346	The Development of Railway Reliability Availability Maintainability and Safety Management and Process Implementation Framework among Malaysian railway key players: Issues, Challenges and Way Forward for Railway Transport Systems	Ahli	31/12/2022
K055	Characterization of Noise Response and its Correlation with Rail Defects for On-board Rail Defects Detection System	Ahli	30/09/2022
M035	SIMULATION ANALYSIS OF NEW TRAIN BOGIE SYSTEM WITH PROTOTYPE	Ahli	15/03/2022
H869	New Train Bogie Suspension and Auto-Steering Axle Mechanism	Ketua	14/03/2022
C071	Seed Funding for Industrial Visits	Ahli	31/12/2021
H670	Design and Analysis of 5 Axle Railway Bogie System	Ahli	31/12/2021
K083	Investigation on the effects of textile structure of recycled PET bottle (R-PET) as newly developed composites for impact energy absorption.	Ahli	30/09/2021
K084	The influence of functional and comfort parameters on the design characteristics of pressure therapy gloves	Ahli	30/09/2021
K094	Green Growth Framework for High Speed Rail (HSR) in Malaysia	Ahli	30/09/2021
A139	Pengurusan ICoE - Rel	Ketua	31/07/2019
U690	Insentif Kecemerlangan Penyelidikan dan Inovasi 2016	Ahli	31/03/2018
1156	Optimization of Green Supply Chain Management Through Radio Frequency Identification (RFID) Network Planning	Ketua	28/02/2015
1063	Reaction kinetic model for the two-step transesterification in the biodiesel production plant	Ahli	14/10/2014
0749	Sustainability Of E-Product Recycling: Propose National Framework, Model And Policy	Ahli	31/08/2013
0892	An Automated Product Identification System for Reverse Logistics Operation in Remanufacturing Industries	Ketua	30/04/2013
0753	The Framework And Analysis Tool To Evaluate The Effect Of Product Design To The Performance Of Manufacturing System	Ketua	30/10/2012

0697	Transformable wheelchair based on exoskeleton adaptation and versatile mobile robot platform	Ketua	31/07/2011
0698	Developing A navigation system on autonomous mobile robot platform using LADAR	Ketua	31/07/2011
0420	Framework for Effective Collaboration between Public Training Institutions and Industries in the Contet of the National Dual Training System Environment in Malaysia	Ahli	31/05/2010
0365	Methodology for Design of Simulation Model for Effective Supply Chain Management	Ketua	28/02/2010
S004	Development Of Modular And Real-Time Manufacturing Machine Control Software Systems	Ahli	31/08/2008

## Publications

### Book

#### Khalid Bin Hasnan

(1997) Pengenalan Kepada Enjin Pembakaran Dalam, Universiti Teknologi Malaysia , 1, ISBN:983 52 0093 9

### Book Chapters

#### Azrin Hani Abdul Rashid, Muhammad Farid Shaari, Mohd Yazid Yahya, Mohd Rozi Ahmad, Mohd Nazrul Roslan, Khalid Hasnan, Siti Hana Nasir, Nurul Zakiah Zamri Tan

(2019) Investigation On The Effects Of Textile Structure Of Recycled Pet Bottle (R-Pet) As Newly Developed Composites For Impact Energy Absorption, Advanced Technology Centre: Research And Innovation Series 2, UTHM , 19, ISBN:9789672306504

#### Siti Hana Nasir, Mohd Nazrul Roslan, Khalid Hasnan, Azrin Hani Abdul Rashid, Helmy Mustafa El Bakri

(2019) The Influence Of Functional And Comfort Parameters On The Design Characteristics Of Pressure Therapy Gloves, Advance Technology Centre Research And Innovation, UTHM , 1, ISBN:9789672306504

### General Publications

#### Khalid Bin Hasnan

(2011) Textile & Packaging (Bda 2801), UTHM

#### Khalid Bin Hasnan

(2010) Engineering Laboratory Iv (Bda 2721), UTHM

#### Haffidzudin Hehsan

(2010) Mech. Eng. Practice Ii: Foundry, Pneumatics, Electro-Pneumatics, UTHM

#### Khalid Bin Hasnan

(2010) Mechanical Engineering Practice Iii (Air Conditioning) Bda2801-2nd, UTHM

#### Mohamad Farid Bin Sies

(2009) Air Conditioning, UTHM

#### Khalid Bin Hasnan

(2009) Amalan Kejuruteraan Mekanikal I (Bda 1081), UTHM

#### Khalid Bin Hasnan

(2009) Cadcam, Cnc Lathe & Cnc Milling, UTHM

#### Khalid Bin Hasnan

(2009) Engineering Laboratory I (Bda 1701), UTHM

#### Khalid Bin Hasnan

(2009) Engineering Laboratory Ii (Bda 2701), UTHM

#### Khalid Bin Hasnan

(2009) Engineering Laboratory Iii (Bda 2711), UTHM

#### Khalid Bin Hasnan

(2009) Engineering Laboratory V (Bda 3701), UTHM

#### badrul zain

(2009) Engineering Laboratory Vi (Bda 3711), UTHM

#### Khalid Bin Hasnan

(2009) Mech. Eng. Practice I: Fitting, Welding, Conventional Lathe, UTHM

#### Khalid Bin Hasnan

(2009) Mech. Eng. Practice Iv- Edm, Machining & Injection Mould, UTHM

#### Khalid Bin Hasnan

(2009) Mech. Eng. Practice Iv- Plc & Robotic, UTHM

### Journal

#### Raheem K. Ajeela, W.S-I.W. Salim, Khalid Hasnan.

(2020) Numerical Investigations Of Heat Transfer Enhancement In A House Shaped-Corrugated Channel: Combination Of Nanofluid And Geometrical Parameters, THERMAL SCIENCE AND ENGINEERING PROGRESS, ELSEVIER , 6, 1, ISSN:24519049

#### Raheem K. Ajeel, W.S.-I.W. Salim, Khalid Hasnan

(2019) An Experimental Investigation Of Thermal-Hydraulic Performance Of Silica Nanofluid In Corrugated Channels, ADVANCED POWDER TECHNOLOGY, ELSEVIER B.V. , 10, 2262, ISSN:09218831

**Raheem K. Ajeel , W.S.-I.W. Salim , Khalid Hasan**

(2019) Design Characteristics Of Symmetrical Semicircle-Corrugated Channel On Heat Transfer Enhancement With Nanofluid, INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, ELSEVIER LTD , 2, 236, ISSN:00207403

**Raheem K. Ajeel, W.S.-I.W. Salim, Khalid Hasan**

(2019) Influences Of Geometrical Parameters On The Heat Transfer Characteristics Through Symmetry Trapezoidal-Corrugated Channel Using Sio<sub>2</sub>-Water Nanofluid, INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, ELSEVIER LTD , 2, 1, ISSN:07351933

**Joewono Prasetijo, Ishak Baba, Khalid Hasan, Shamsullarifin Ismail, Mohd Ali Ridho Khairul Anuar, Mohd Azri Mat Aron, M Ikhsan Setiawan, Sri Wiwoho Mudjanarko**

(2019) Modelling Rail Accident And Incident Causes By Using Zero Inflated Poisson Approach, THE INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING, UTHM , 9, 255, ISSN:26007916

**Raheem Kadhim Ajeel, Wan Saiful-Islam Wan Salim, Khalid Hasan**

(2018) Impacts Of Corrugation Profiles On The Flow And Heat Transfer Characteristics In Trapezoidal Corrugated Channel Using Nanofluids, JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES, Penerbit Akademia Baru , 9, 170, ISSN:22897879

**Ajeel R.K., Salim W.S.W., Hasan K.**

(2018) Numerical Investigations Of Flow And Heat Transfer Enhancement In A Semicircle Zigzag Corrugated Channel Using Nanofluids, INTERNATIONAL JOURNAL OF HEAT AND TECHNOLOGY, International Information and Engineering Technology Association , 12, 1292, ISSN:03928764

**Ajeel R.K., Salim W.S.-I.W., Hasan K.**

(2018) Thermal And Hydraulic Characteristics Of Turbulent Nanofluids Flow In Trapezoidal-Corrugated Channel: Symmetry And Zigzag Shaped, CASE STUDIES IN THERMAL ENGINEERING, Elsevier Ltd , 9, 620, ISSN:2214157X

**Ajeel R.K., Wan Salim W.S.-I., Hasan K.B.**

(2018) Thermal Performances Comparison In Various Types Of Trapezoidal Corrugated Channel Using Nanofluids, INTERNATIONAL REVIEW OF MECHANICAL ENGINEERING, Praise Worthy Prize , 8, 672, ISSN:19708734

**Adel Muhsin Elewe, Khalid Bin Hasan and Azli Bin Nawawi**

(2017) Hybridized Firefly Algorithm For Multi-Objective Radio Frequency Identification (Rfid) Network Planning, ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES, Asian Research Publishing Network (ARPN) , 2, 834, ISSN:18196608

**Adel Muhsin Elewe, Khalid Hasan, Azli Nawawi**

(2017) Optimization Of Rfid Network Planning Using Mdb-Fa Method, JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING, Universiti Teknikal Malaysia Melaka , 12, 7, ISSN:21801843

**Azli Nawawi, Khalid Hasan, Zamani Ngali and Noor Azizah Sidek**

(2016) Effect Of Parameters Variation On The Performance Of Particle Swarm Optimization Algorithm For Tag Coverage Problem Of Radio Frequency Identification Network, ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES, Asian Research Publishing Network (ARPN) , 9, 10971, ISSN:18196608

**Khalid Hasan, Aftab Ahmed, Badrul-aisham, Qadir Bakhsh, Kamran Latif , and Kashif Hussain**

(2016) Integration Of Rfid Network Planning With Xbee Network: A New Approach, INTERNATIONAL JOURNAL OF SMART HOME, Copyright ? 2016 SERSC , 325, ISSN:19754094

**Khalid Hasan, Djamel Hissein Didane, Mohd Amran Madlan**

(2016) Interior Noise Reduction Approach For Monorail System, ARPN JOURNAL OF ENGINEERING AND APPLIED SCIENCES, Asian Research Publishing Network (ARPN) , 6, 7601, ISSN:1819-6608

**Azli Nawawi, Khalid Hasan, Salleh Ahmad Bareduan**

(2014) Corellation Between Rfid Network Planning (Rnp) Parameters And Particle Swarm Optimization (Pso) Solutions, APPLIED MECHANICS AND MATERIALS, Trans Tech Publications , 1, 1245, ISSN:1660-9336

**Jalil Azlis-Sani, Siti Zawiah Md Dawal, Norhayati Mohd Zakwan and Khalid Hasan**

(2011) Sleepiness Among Train Drivers: A Case Study In Malaysia , MALAYSIAN JOURNAL OF ERGONOMICS, UNIMAP , 12, 23, ISSN:2773501X

**Prosiding / Seminar****Tengku Imran Tengku Munawir, Ahmad Abqari Abu Samah, Muhammad Afiq Akmal Rosle, Jalil Azlis-Sani, Khalid Hasan, S.M. Sabri S.M. Ismail, Muhammad Nur Annuar Mohd Yunos and Teo Yen Bin**

(2017) A Comparison Study On The Assessment Of Ride Comfort For Lrt Passengers, INSTITUTE OF PHYSICS PUBLISHING , 1, ISBN:17578981

**Khalid Bin Hasan**

(2010) Framework Of Telemetry Technology Application In Robotic Area Using Matlab Toolboxes For Education, IEEE

**Consultancies**

Year	Description	Level
2015	Consultancy MTCP - Project Management Towards Organisational Sustainability: Theory And Practice , RM 200,000	National
2014	Consultancy MTCP - Project Management Towards Organisational Sustainability: Theory And Practice , RM 250,000	National
2013	Fascilitator for PROJECT Penyediaan Fasiliti Industrial Training Petroleum Iraq at UTHM	National
2012	Consultative Panel for Program Training Pra-Penempatan Tenaga Instructor KKTU Kemaman Batch 2 ?Kursus Teknikal Teras (siri 2)	National
2011	Consultative Panel for Penubuhan Institute For Integrated Engineering UTHM. 2010-11	National
2001	Curriculum and Laboratory Development for IKBN, Ministry Of Youth and Sports, Malaysia, 2001 -02	National

**Supervision**

Year	Description	Role
2015	Supervisor for Muhammad Asyraf bin Kamarudin, Msc Railway, The Effect of Monorail Bogie Parameter on Ride Quality , UTHM, 2015	Supervisor
2015	External Examiner for Raguvaran a/l Jayahkudy, MMeng, UTem, Sept 2015	External Examiner
2015	Supervisor fro Azli Nawawi, PhD, RFID Tag Coverage Optimization Using Particle Swarm Optimization (PSO) Algorithm And Design Of Experiment (DOE) Technique , UTHM, 2015	Supervisor
2015	Supervisor for Aftab Soomro, PhD, Optimization Of Green Supply Chain Management Through Radio Frequency Identification (RFID) Network Planning , UTHM, 2015	Supervisor
2015	Supervisor for Djamel Hissein Didane, MSc Railway, Interior Noise Reduction Approach for Monorail System, UTHM, 2015	Supervisor
2014	Co Supervisor for Arhami Mutalib, PhD, Design and Stability Analysis of an Unmanned Small-scale Air-Land-Water Vehicle, UTHM, 2014	Supervisor
2014	Examiner for PhD thesis : Shahrul Azmir bin Osman (2014), Charaterizationof a medium-duty I.C.Engine operated using Retrofit Monogas Fuelling Control	Examiner
2014	Supervisor for Qadir Bashkh Jamali , Masters MechEng, Design Of A Hybrid Locomotion System For Mobile Robot And Analysis For Suitable Material Selection , UTHM, 2014	Supervisor
2014	Supervisor for Winardi Sani, PhD, Methanolysis of Crude Palm Oil for Biodiesel Production in a Pilot Plant, UTHM, 2014	Supervisor
2013	External Examiner for Majid Moayedfar, Masters Mechanical Engineering, Universiti Putrajaya Malaysia, 2013	External Examiner
2012	External Examiner for Alina Binti Aminuddin, Masters, To Measure Occupant?s Body Temperature By Non Destructive Tool At Health Centre Of Hot Humid Climate, Universiti Putra Malaysia, 2012	External Examiner
2012	External Examiner for Nurhaiza Binti Shahrir, Masters, Development Of Predictive Maintenance System In A Solar Cell Manufacturing Industry, Universiti Putra Malaysia, 2012	External Examiner
2012	External Examiner for Mohammad Farid Saaid, Masters, The Developmant of Radio Frequency Identification Walking Stick (RFIWS) System for the blind, Universiti Teknologi MARA, 2011	External Examiner
2012	Supervisor for Luhur Budi Saesar, Masters Mech Eng, Development Of Semi-Autonomous Mobile Robot Hardware-In-The-Loop (HIL) Simulation For Indoor Mapping, UTHM, 2012	Supervisor
2011	Supervisor for Prima Adhi Yudhistira, Masters Mech Eng, Kinematical Analysis and Simulation of Transformable Wheelchair Mechanism , UTHM, 2011	Supervisor
2011	Supervisor for Omar Abdel Aziz , Masters Mech Eng, Development of Wireless Mechanism to reduce wiring Complexities of Robot Manipulator , UTHM, 2011	Supervisor
2010	Examiner for M Mech Eng Thesis : Martin Obinna Nwanko ; Implementation Of Finite Element Mathematical Models To Predict The Effect Of Scaling On The Water Tube Boiler, Universiti Tun Hussein Onn Malaysia	Examiner
2010	Supervisor for Said Abdo Elshayeb, Masters Mech Eng,Multi-Sensor Fusion For Mobile Robot Positioning, UTHM, 2010	Supervisor
2009	Examiner for PhD Thesis; Sh Salleh Sh Ahmad , Bottleneck Adjacent Matching (BAM) Heuristic For Cyber Manufacturing Scheduling : Re-Entrant Shop With Dominant Machine Problem, Universiti Tun Hussein Onn Malaysia	Examiner
2008	Supervisor for Mohd Nurhanif bin Hashim, MMechEng, Universiti Tun Hussein Onn Malaysia, 2008	Supervisor
2000	Supervisor for Lee Chee Me., MMechEng, Universiti Teknologi Malaysia, 2000	Supervisor
1999	Supervisor for Mustaffa Hj Ibrahim, MMechEng, Universiti Teknologi Malaysia, 1999	Supervisor

### Extension & Public Services

Year	Description	Level
2015	Pengerusi, Jawatankuasa Penduduk Taman Pintas Jaya, Parit Raja, Johor	District
2015	Pengerusi Tetap, Pertubuhan Ikram Negeri Johor	District
2014	Pengerusi, Jawatankuasa Penduduk Taman Pintas Jaya, Parit Raja, Johor	District
2014	Pengerusi Tetap, Pertubuhan Ikram Negeri Johor	District
2013	Pengerusi, Jawatankuasa Penduduk Taman Pintas Jaya, Parit Raja, Johor	District
2012	Yangdipertua, Persatuan Ibubapa Guru, Sek Keb Pintas Puding Parit Raja	District
2012	Pengerusi, Jawatankuasa Penduduk Taman Pintas Jaya, Parit Raja, Johor	District
2011	Pengerusi, Jawatankuasa Penduduk Taman Pintas Jaya, Parit Raja, Johor	District
2011	Pengerusi, Jawatankuasa Penduduk Taman Pintas Jaya, Parit Raja, Johor	District
2011	Yangdipertua, Persatuan Ibubapa Guru, Sek Keb Pintas Puding Parit Raja	District

2010	AJK Persatuan Staf Akademik UTHM ( PERKASA)	University
2010	Yangdipertua, Persatuan Ibubapa Guru, Sek Keb Pintas Puding Parit Raja	District
2010	Pengerusi, Kelab Kebajikan dan Sukan Fakulti Kej Mekaninal dan Pembuatan, UTHM	University
2009	AJK Persatuan Staf Akademik UTHM ( PERKASA)	University
2009	Yangdipertua, Persatuan Ibubapa Guru, Sek Keb Pintas Puding Parit Raja	District
2008	AJK Persatuan Staf Akademik UTHM ( PERKASA)	University

## Courses & Training

Year	Description Organiser / Venue	Date
2021	SESI TAKLIMAT RESEARCH ENHANCED - STRUCTURED INTERNSHIP PROGRAMME (RE-SIP) FTK 2021 UTHM / SECARA ATAS TALIAN	16/06/2021
2021	PERKONGSIAN ILMU: PERMOHONAN GERAN KONSORTIUM KECEMERLANGAN PENYELIDIKAN (KKP) BERSAMA YBRS. PROF. MADYA DR. NOR AZIATI BINTI ABDUL HAMID UTHM / GOOGLE MEET	25/04/2021
2021	SESI PERKONGSIAN ILMU: PERMOHONAN GERAN KONSORTIUM KECEMERLANGAN PENYELIDIKAN (KKP) BERSAMA YBRS. PROF. MADYA DR. NOR AZIATI BINTI ABDUL HAMID UTHM / GOOGLE MEET	25/04/2021
2021	KURSUS BENGKEL 2U2I DAN WORK BASED LEARNING (WBL) LAIN-LAIN / ATAS TALIAN	16/02/2021
2020	ANIMATION USING POWERPOINT UTHM / -	22/07/2020
2020	ANIMATION USING POWER POINT UTHM / -	22/07/2020
2020	CREATING ENGAGING & INTERACTIVE LIVE PRESENTATION WITH STREAMYARD UTHM / -	20/07/2020
2020	BENGKEL SASARAN KERJA TAHUNAN 2020 INSTITUT KEJURUTERAAN INTEGRASI (I2E) UTHM / KSL HOTEL & RESORT, JOHOR BAHRU	05/03/2020 - 07/03/2020
2019	KURSUS PRA PERSARAAN UTHM / HOTEL COPTHORNE CAMERON HIGHLAND	22/07/2019 - 25/07/2019
2019	KOLOKIU PENYELIDIKAN FTK SIRI 1/2019 UTHM / ,	17/06/2019
2019	BENGKEL SASARAN KERJA TAHUNAN UNIVERSITI I2E UTHM / UTHM	25/04/2019
2019	KURSUS AUGMENTED REALITY UTHM / UTHM	02/04/2019
2019	MAJLIS MENANDATANGANI MEMORANDUM PERSEFAHAMAN (MOU) DAN MEMORANDUM PERJANJIAN (MOA) FTK UTHM / DEWAN JAMUAN PTTA ARAS 5	31/03/2019
2019	TRAINING OF VECTOR NETWORK ANALYZER, FIELFOX HANDHELD SPECTRUM ANALYZER & IOT MODULE UTHM / UTHM	20/02/2019