

AHMAD SYAHRIZAN BIN SULAIMAN



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EDUCATION

SEP. 2001- University of Birmingham Birmingham,
MAR. 2006 **Ph.D. in Metallurgy and Materials** UK
• **Ph.D. Title:** Finite Element Modelling and Characterisation of Springback and Drawability in Aluminium-Based Alloy
(OCT. 2004 – MARCH 2006: Part-time Research Assistance)

SEP. 1994 - University of Strathclyde Glasgow,
JUN. 1997 **BEng. Manufacturing Engineering and Management** UK
(2:1)
• Final year project: Application of Genetic Algorithm in Grinding Wheel Selections

WORK EXPERIENCE

JULY. 2006 Universiti Malaysia Pahang Pekan,
- **NOW** **Lecturer** Pahang
• Lectured in Solid Mechanics and Materials Engineering undergraduate courses
• Manage and develop Materials Testing and Metallography laboratory

COMPLETED CONSULTANCY PROJECT (2008-2016)

September 2016 - WGTP RBI Assessment for Lynas Advanced Material Plant through UIE Solutions Sdn Bhd

September 2016 - BPC FFS Level 3 for Reactors R2100/R2200, R2150 & R2601 for BASF PETRONAS Chemicals Sdn Bhd through UIE Solutions Sdn Bhd

September 2016 - Corrosion Report for PTF RBI Re-Assessment for BASF PETRONAS Chemicals Sdn Bhd through UIE Solutions Sdn Bhd

September 2016 - FPG Asset Life Study - Report Review by Corrosion/Material Specialist for FPG Oleochemicals Sdn. Bhd. through UIE Solutions Sdn Bhd

July 2016 - Lab Analysis for Polymer: Coolant Pump Seal for PETRONAS Gas Berhad, Segamat Operation

April 2016 - Materials Failure Analysis for Wheel Compressor for PETRONAS Chemicals Ethylene Sdn Bhd

February 2016 - Materials Failure Analysis: Prime Mover WB 5189 A- Volvo FM Asset Tag: P968/Trailer: T/WB 1918: T6950 for MISC Integrated Logistics Sdn Bhd

January 2016 - Materials Failure Analysis: for K102-P3 Piston Ring: Materials Characterization for PETRONAS Chemicals LDPE Sdn. Bhd. Produces

November 2015 - Failure Mode Analysis K/KT-2302 Turbo Expander Wheel and Inlet Guide Vanes for Petronas Chemicals Derivatives Sdn Bhd

May 2015 - Fitness for Service Analysis General Metal Loss on Tank Shell T-4210: Miri Crude Oil Terminal through UIE Solutions Sdn Bhd

March 2015 – Provision of Corrosion Review Services of BASF BDO Complex through UIE Solutions Sdn Bhd

March 2015 – Finite Element Analysis Liquid Storage Hull Tank: Malikai Deep Water Project for Technip MHB Hull Engineering Sdn Bhd

November 2014- Laboratory Test of Iron Ore Aggregate for Nura-Kleen Sdn Bhd

October 2014 – Materials Failure Analysis of Shaft for Esteem Energy Engineering Sdn Bhd

March 2014 – Re- Analysis of Intermetallic Particles of Inclusion in High Speed Shaft (serial number T811) for PETRONAS Gas Berhad, Centralised Utilities Facilities (CUF), Kerteh, Terengganu Darul Iman

October 2013 – Material Failure Analysis of Heat Oil Pump Shaft for PETRONAS Gas Berhad, Centralised Utilities Facilities (CUF), Gebeng, Pahang Darul Makmur

August 2013 –Material Failure Analysis of Frame 6 GEC Alsthom Gas Turbine F(T811) High Speed Shaft Bearing Failure for PETRONAS Gas Berhad, Centralised Utilities Facilities (CUF), Kerteh, Terengganu Darul Iman

July 2013 –Material Failure Analysis of Frame 6 GEC Alsthom Gas Turbine F(T811) Low Speed Shaft Bearing Failure for PETRONAS Gas Berhad, Centralised Utilities Facilities (CUF), Kerteh

July 2013 – Peer Review Report of Corrosion Management Plan of Magtymguly Field, Turkmenistan – through UIE Solutions Sdn Bhd for PETRONAS Carigali Turkmenistan Sdn Bhd

June 2013 – Corrosion Study: FPSO Berantai Topside Process and Utilities - through UIE Solutions Sdn. Bhd. for Petrofac Energy Developments Sdn Bhd

November 2012 – API 579 Fitness For Service: Level 3 Assessment for Switch Cooler - through UIE Solutions Sdn. Bhd. for BASF Petronas Sdn Bhd

June 2012 - Hyper Compressor (K103) Packing Ring Analysis – Petlin Malaysia Sdn Bhd

June 2012 – Positive Material Identification of PE Coated Steel Pipes – for Bredero Shaw (Malaysia) Sdn. Bhd

May 2012 – Failure Investigation of Cracked Pump Shaft – Optimal Chemicals (Malaysia) Sdn Bhd

March 2012 – Failure Investigation of Rotor Compressor – Petlin Malaysia Sdn Bhd

February 2012 – Positive Material Identification of Steel Plate – for Bredero Shaw (Malaysia) Sdn. Bhd

January 2012 – Material Testing of Clinching Joints – for Mercedes-Benz Malaysia Sdn Bhd

January 2012 – CFD Analysis Additional Blower with Electrical Motor for Utility Boiler (UTB F-3270) – through MMC Oil & Gas Engineering Sdn Bhd for Shell Refining Company (Federation of Malaya) Berhad

November 2011 – Material and Failure Analysis of Ethylene Cracking Radiant Tube through Pengkalan Offshore Sdn Bhd for Ethylene Malaysia Sdn Bhd

June 2011 – Failure Investigation on Impeller Damage of DULANG CD 553 Gas Compressor - through Pengkalan Offshore Sdn Bhd for Petronas Carigali Sdn Bhd

April 2011 - Failure Investigation of Cracked Fuel Manifold of Allison Gas Turbine - through Pengkalan Offshore Sdn Bhd for Petronas Carigali Sdn Bhd

March 2011 – Failure Investigation of Parted GD HI-T Pig Signaler - through Pengkalan Offshore Sdn Bhd for Petronas Carigali Sdn Bhd

March 2011 - Structural Analysis of 8 ton Hook Lift – for SUMAI Engineering Sdn Bhd

November 2010 – Mechanical Weld testing – for Asturi Metal Builder (M) Sdn Bhd

June 2010 – Incinerator Improvement Project and performance test run for Ionised Water Scrubber - through MECIP (M) Sdn Bhd for Petronas Penapisan (Terengganu) Sdn Bhd

January 2010 - Water Plug Engineering Analysis For Small Vessel MARPOL Line – through MECIP (M) Sdn Bhd for Petronas Penapisan (Terengganu) Sdn Bhd

June 2009 - Failure Investigation of Pipeline ID237 - through Pengkalan Offshore Sdn Bhd for Petronas Carigali Sdn Bhd

November 2008 - V-5425 Flare Scrubber Fitness for Services Project - through UIE Solutions Sdn. Bhd. for Petronas Carigali Sdn Bhd

May 2008- Angsi-B Platform Crane Fitness for Service Project - through UIE Solutions Sdn. Bhd. for Petronas Carigali Sdn Bhd

OCT. 2004 – University of Birmingham Birmingham,
MARCH 2006 **Part-time Research Assistant** UK

- Participated in a research project for developing an **on-line ultrasonic measurement** of texture/plastic anisotropy for sheet metal product.

AUG. 1997 - UMW Corporation Sdn. Bhd. Shah Alam,
AUG. 2001 **Mechanical Design Engineer (Automotive)** Malaysia

- Experienced in liaising and interacting with **customer** and **supplier** representatives, e.g. design engineers, test engineers, die-maker and technicians for a new car **platform development programme**.
- Able to present and recommend **design proposal** to other programme member.
- Identified sound attenuation problem using transmission loss test in **anechoic chamber** for automotive **air-cleaner housing**.
- Eliminated sound attenuation using a Helmholtz Resonator. **Designed** and **packaged** the resonator without spatial **interference** with other components.
- Design **solid** and **surface** 3-D models using **CATIA V4R2.2**.