

# Mohamed Ismail Mohamed Saleh

## Personal Data

- Date & Place of Birth:** December 2<sup>nd</sup>, 1987 (Doha, Qatar)
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## Education

- (**Dec/2015**) M.Sc. in Mechanical Engineering, Qatar University, Doha, Qatar.  
Master thesis: The joining of dissimilar metals Al-6063 to UNS S32304.
- (**July/2010**) B.Sc. in Engineering and Material science, German University in Cairo, Egypt  
Graduation project: Fatigue behaviour of Al metal matrix composites.
- (**July/2005**) Graduation from Al-Estiqlal Secondary School, Doha, Qatar.

## Work & Training Experience

-Lab coordinator at Centre for Advanced Materials-Qatar University (Sep2011- present)

- Monitor laboratory work to ensure compliance with set standards;
- Coordinate all the operational activities in the lab;
- Keep detailed logs of all work-related activities;
- Provide support and assistance related to facilities and equipment issues and repairs;
- Provide technical advice related to the procurement and maintenance of scientific research equipment and supplies;
- Conduct standardized laboratorial tests and analyses to evaluate the quantity or quality of physical or chemical substances researched items;
- May assist faculty with designing experiments;
- Limited staff supervision; provides guidance to undergraduate and graduate students;
- Design/build modifications to research equipment; develop instructional materials for undergraduate lab.

- Trainee at Arab Centre for Engineering Studies (Mar 2011-July 2011)
- Under graduate internship at National Petroleum Services (Aug 2009-Sep 2009)
- Under graduate internship at Qatar Rotomold factory (July 2008-Aug 2008)

## **Scientific Techniques & Laboratory Equipment Experience**

### **-Sample Preparation and Material Modification**

-Twin screw extruder (*Brabender KETSE 20/40*), plastograph (*Brabender EC W50 EHT*), metallographic specimen preparation, cryomilling, laboratory homogenizer (*SPX APV 2000*), nano fiber electrospinning, spin coating (*Laurel WS 650-23*), corona and plasma generator.

### **-Material Testing and Characterization**

-Tensile (*Lloyd LR 50K/1K Plus*), hardness (*Suntex CLCR200*) and micro-hardness (*Future-Tech ARS 9000*) measurements, rotating fatigue machine (*TecQuipment SM1090*), dynamic mechanical analyzer (TA Instruments RSA G2), universal tribometer (*Rtech*).

-TGA (*PerkinElmer TGA 4000*), broadband dielectric spectroscopy (*Novocontrol*), thermal conductivity meter (*HotDisk TPS 2500S*), melt flow index (*Qualitest LMI 4000*), density column meter (*ASTM D1505 Davenport*).

-Optical emission spectroscopy (*Thermo Fisher ARL 3460*), XRD (*PANalytical Empyrean*), XRF (*Brucker S2 Puma*).

### **- Microscopic Techniques**

SEM (*Jeol JCM-6000*), inverted microscope for metallography (*Leica DM*), profilometer (*Leica DCM8*), polarized light microscope (*Zeiss - Axio Scope A1*).

### **- Weathering Simulation and Corrosion**

Potentiostat/Galvostat (*Gamry Ref 600*), accelerated weather tester (*Q-lab-QUV*), salt spray cabinet (*Ascott*).

## **Seminars/Workshops**

- Radiation protection officer, Arabic Cultural Center for Training and Consultants, Doha-Qatar (10<sup>th</sup>-14<sup>th</sup> April 2016);
- ISO/IEC 17025 Internal Auditor, Business Trading Center sponsored by TÜV INTER CERT, Doha-Qatar (5<sup>th</sup>-10<sup>th</sup> December 2015);
- Handling, Storage and Disposal of Hazardous Waste, Boom Waste Treatment Services, Doha-Qatar (22<sup>nd</sup> May 2014);
- H<sub>2</sub>S Awareness, Qatar Petroleum, Doha-Qatar (13<sup>th</sup> June 2013);
- Laboratory Safety Management, TUV Middle East, Doha-Qatar (7<sup>th</sup>-11<sup>th</sup> April 2013);
- Root Cause Analysis/Corrective Actions, American Association for Laboratory Accreditation, Doha-Qatar (28<sup>th</sup> March 2013);
- Proficiency Testing: General Requirements of ISO/IEC 17043 and Statistical Methods, American Association for Laboratory Accreditation, Doha-Qatar (25<sup>th</sup>-27<sup>th</sup> March 2013);
- Fire Safety Awareness, Chubb fire and security LTD, Doha-Qatar (13<sup>th</sup> December 2012);
- Managing Corrosion through human factors, CAM, Qatar University, Doha, Qatar. (4th June 2012);
- Laboratory Safety from Design to Maintenance Phases, Shell Global Solutions International, QSTP, Doha, Qatar (29th November 2011).

## **Languages**

- Arabic: native language.
- English: fluent oral and written communication.
- German: basic knowledge

## **Computer Skills & Software**

- Microsoft office (Word, Excel, Power point)
- AutoCAD.
- Computer aided design / Computer aided manufacturing (CAD/CAM).

## **Conferences Publications & Presentations**

-Mohamed I. Saleh, Tahir I. Khan, Hans J. Roven, "*Transient liquid phase bonding of AA-6063 to UNS S32304 using Cu interlayer*", Procedia Chemistry, Volume 19, 2016, Pages 517-524.

- Ahmed El Noamany, Ali Pakari, Ayman Salem, Mohamed Saleh, John-John Cabibihan, "*Design and Experiments on a Personalized Prosthetic Finger*" contributed paper at fourth Arab Robotics and Artificial Intelligence Conference, Doha, Qatar, (February 2016).

- Mohamed I. Saleh, Tahir I.Khan, Hans J.Roven, "*Transient liquid phase bonding of AA-6063 to UNS S32304 using Cu interlayer*" 5th International Conference on Recent Advances in Materials, Minerals and Environment (RAMM) & 2nd International Postgraduate Conference on Materials, Mineral and Polymer (MAMIP), Penang, Malaysia, 4-6 August 2015.

- Ahmed El Noamany, Ali Pakari, Ayman Salem, Mohamed Ismail Saleh, John-John Cabibihan , "*Design and Development of a Prosthetic Finger with Natural Feel, Movement, and Appearance*" Middle East Conference on Biomedical Engineering (MECBME'14), Doha (February 2014).