1. Name: Moosa Salim Moosa Al Kharusi

2. Education

- **Ph.D.** Mechanical Engineering, Sultan Qaboos University Oman, 2017.
- **MSc.** Mechanical Engineering, Sultan Qaboos University Oman, 2012.
- **BSc.** Mechanical Engineering, Sultan Qaboos University Oman; 2009.

3. Work Experience

1. **December-2016 – August 2020:** working in Global College of Engineering and Technology (GCET), in partnership with University of the West of England (UWE), Bristol, UK**.** The partnership is on franchised base.
2. **February 2012 – 2016, Teaching Assistance in different courses during PhD study:**
3. **September 2009 – 2016, Research Assistance in Advance Mechanics and Advanced Materials Research Group (SQU):**
4. **June – August 2008, Training in Aerospace Department. at University of Glasgow (UK):**
5. **January 2007, First Industrial Training at Sultan Qaboos University (SQU):**

4. Certifications or professional registrations

1. **November-2018 to March-2019,** Post Graduate Certificate in Academic Practice (PCAP), University of the West of England (UWE), Bristol, UK.
2. **December-2017 to March-2018;** Industrial Innovation Specialists Training Program, Industrial Innovation Centre (IIC), Oman.
3. **July-2014;** Structure and Multiscale Mechanics of Carbon Nanomaterials, International Center for Mechanical Science, Udine, Italy.
4. **June-2014;** EBSD Applications training, **Oxford Instrument**, High Wycombe, United Kingdom.
5. **June 2014;** AZtech Energy Applications, **Oxford Instrument**, High Wycombe, United Kingdom.
6. **June 2014;** INCA Wave Applications, **Oxford Instrument**, High Wycombe, United Kingdom.

5. Journal Papers

1. **M. S. M. Al-Kharusi**, K. Alzebdeh, and T. Pervez (2016), "*An Atomistic-Based Continuum Modeling for Evaluation of Effective Elastic Properties of Single-Walled Carbon Nanotubes*," Journal

of Nanomaterials, vol. 2016, Article ID 8641954, 13 pages, 2016. doi:10.1155/2016/8641954

2. S.Z. Qamar, M. Akhtar, T. Pervez, **M.S.M. Al-Kharusi** (2013), *"Mechanical and structural behavior of a swelling elastomer under compressive loading"*, Materials and Design, 45, pp. 487496.
3. M. Akhtar, S. Z. Qamar, T. Pervez, R. Khan, **M.S.M. Al-Kharusi** (2012), "*Elastomer Seals in Cold Expansion of Petroleum Tubulars: Comparison of Material Models*," Materials and Manufacturing Processes, Vol. 27, Iss. 7.
4. S. Z. Qamar, T. Pervez, M. Akhtar, **M.S.M. Al-Kharusi** (2012), "*Design and Manufacture of Swell Packers: Influence of Material Behavior*," Materials and Manufacturing Processes, Vol. 27, Iss. 7.

6. Conference papers

1. **M.S.M. Al-Kharusi**, T. Pervez, K. Alzebdeh (2018) *"Evaluation of Young's Modulus of Single Walled Carbon Nanotube using Finite Element Analysis Technique"*, TCMC International Conference on Materials Science and Graphene Technology 2018, Dubai UAE, April 9-11, 2018.
2. **M.S.M. Al-Kharusi**, T. Pervez, K. Alzebdeh (2017) *"Effective Mechanical Properties of Nanoscale Representative Volume Element of CNT-based Nanocomposites"*, EDAS 2017, 11th International Conference on Composite Science and Technology, American University of Sharjah, April 2017.
3. **M.S.M. Al-Kharusi**, T. Pervez, K. Alzebdeh (2014) *"Effect of Chirality and Geometry on the Young's Modulus of Graphene Structure Using Spring Based Finite Element Approach"*, ASME 2014 International Mechanical Engineering Congress and Exposition, The Palais Des Congres, Montreal, Canada, November 14–20, Paper No.: IMECE2014-37972.
4. **M.S.M. Al-Kharusi**, S.Z. Qamar, T. Pervez, M. Akhtar (2013) *"Elastomer Seal With Frictional Contact: Analytical Solution"*, ASME 2013 International Mechanical Engineering Congress and Exposition, San Diego, California, USA, November 15–21, Vol: 9.
5. S.Z. Qamar, M. Akhtar, **M.S.M. Al-Kharusi** (2013) *"Effect of Swelling Behavior on Elastomeric Materials: Experimental and Numerical Investigation"*, ASME 2013 International Mechanical Engineering Congress and Exposition, San Diego, California, USA, November 15–21, Vol: 9.
6. S.Z. Qamar, T. Pervez, **M.S.M. Al-Kharusi**, M. Akhtar (2011) *"Material Characterization Of Water-Swelling and Oil-Swelling Elastomers,"* 15th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2011, 12-18 September 2011, Prague, Czech Republic.
7. **M.S.M Al-Kharusi**, S.Z. Qamar, T. Pervez, M. Akhtar (2011) "*Non-Linear Stress Evaluation of Swelling Elastomer Seals Sheared by Pressure at both Ends,*" Annual Technical Symposium and Exhibition of the SPE (ATS&E), May 15-18, 2011 AlKhobar, Saudi Arabia, paper no.: 149032-MS.
8. S.Z. Qamar, T. Pervez, M. Akhtar, **M.S.M. Al-Kharusi** (2010) "*Material Behavior of Water-Swelling and Oil-Swelling Elastomers,*" International Conference on Applied

Mechanics, Materials and Manufacturing (ICAMMM 2010), 13-15 December 2010, Mascut, Oman.

9. M. Akhtar, S.Z. Qamar, T. Pervez, R. Khan, **M.S.M. Al-Kharusi** (2010) "*Hyperelastic Material Models for Swelling Elastomers: Experimental and Numerical Investigation,*" International Conference on Applied Mechanics, Materials and Manufacturing (ICAMMM 2010), 13-15 December 2010, Mascut, Oman.

7. Awards and recognition

- April 2012, **PhD Scholarship in Mechanical Engineering, Sultan Qaboos University, Sultanate of Oman**
- September 2009, **Master of Science Scholarship in Mechanical Engineering,**
- **Sultan Qaboos University, Sultanate of Oman**
- September 2010, **2nd prize, SPE international Student Competition, Italy.**
- June 2010, **1st prize, SPE Middle East Student Competition, Oman.**
- June 2009, **2nd prize; Design Competition in MIE Department, College of Engineering, SQU.**