

Mohamed Nesor Mohamed Khalel (PhD) | CV

Contact Information

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Address: P.O. Box 346 Ajman University, Ajman, UAE.

Education

PhD: University of Dublin, Trinity College Dublin, Ireland, July 1998.

B.Sc. (Hon), Class 1: University of Gezira, Sudan, May 1990.

Specialization and Research Area: Biomedical Engineering (Instrumentation and Signal Processing).

Teaching

1990–1994: Teaching Assistant, University of Gezira, Sudan.

1999–Present: Assistant Professor, Department of Biomedical Engineering, Ajman University.

Service

Academic and Administrative Positions and Committees.....

1. University Level Service-Ajman University

- **Interim Vice Chancellor for Academic Affairs**, 2017.
- **Director**, Quality Assurance and Institutional Research Unit, 2012–2016.
- **Chair**, University Curricular and Study Plans Committee, 2018–Present.
- **Member**, Assessment Planning Committee (APC), 2020.
- **Chair**, Task Force for Restructuring of Ajman University Colleges and Departments, 2018.
- **Member**, QAA Accreditation Task Force, 2019.
- **Member**, WSCUC Accreditation Task Force, 2020.
- **Chair**, Internship/Training Review Task Force, 2020.
- **Co-Chair**, AU Institutional Assessment and Effectiveness Committee, 2018–Present.
- **Chair**, AU Strategic Plan (2017–2022) Committee, 2017.
- **Chair**, Committee for Preparing the Self-Study Report for Renewal of AU Licensure, 2017.
- **Chair**, AU Assessment Committee, 2012–2016.
- **Member**, Steering Committee for Establishing the College of Medicine, 2016.
- **Chair**, Committee for Reviewing and Updating AU Policies and Proc., 2016.
- **Member**, AU Staff Grievances Committee, 2015–2016.
- **Member and Coordinator**, AU Examination Committee, 2000–2015.
- **Chair**, Committee for Implementing and Evaluating AU Performance Appraisal System

for Faculty and Staff, 2015–2016.

- **Member**, Committee for SACSCOC Accreditation, 2017.
- **Professional Training Facilitator**: Conducted more than 20 training workshops for AU faculty members and staff on Quality Assurance and Accreditation 2015–2017.
- **Member**, Teaching and Learning Center (TLC) Council, 2020.
- **Member**, Faculty Search Committee, College of Medicine 2019–Pr.
- **Member**, Faculty Search Committee, College of Dentistry, 2019–Present.
- **Member**, Faculty and Staff Search Committee, Department of Civil Engineering, 2019.
- **Member**, Task Force to Review Engineering Mathematics Courses, College of Humanities and Sciences, 2019.
- **Chair**, many ad-hoc committees.

2. Department of Biomedical Engineering-Ajman University Head of the Biomedical Engineering Department, 2005–Present.

Under my leadership:

- The BME program was granted full accreditation by ABET (American Board for Engineering and Technology). The chair of the review committee praised the program and said, "It is the first time in the 14 years of my service in ABET, a program is accredited without deficiencies or shortcomings or concerns".
- The BME program was successfully accredited by CAA-UAE three times in the academic years 2006, 2011 and 2018.

3. College of Engineering and Information Technology-Ajman University

- **Deputy Dean**, College of Engineering, 2001–2006.
- **Chair**, College Examination Committee, 2006–2015.
- **Chair**, many ad-hoc committees.

Honors and Awards

- Excellence Award in Service, Ajman University, 2019.
- Dream Team Award-ABET Accreditation, Ajman University, 2018.
- College of Engineering Outstanding Performance Award, 2010.
- PhD Scholarship, Department of Foreign Affairs-Republic of Ireland, 1994–1998.
- Provost Research Award, Trinity College Dublin, Republic of Ireland, 1995.
- Senate Award for Academic Excellence, University of Gezira-Sudan, 1985.
- Dean's List, College of Science and Technology, University of Gezira-Sudan 1985–1990.

Professional Development

- Blended Learning for Academic Leadership Workshop, Abu Dhabi, 2020.
- Assessment for Student Success Workshop, Dubai, 2019.
- Strategic Planning in Higher Education Workshop, Jordan, 2015.
- ABET Accreditation Workshop, Ajman, 2014.
- Excellence and Quality Workshop, Abu Dhabi, 2013.
- Internal Assessment Workshop, Abu Dhabi, 2014.
- Conflict Management Workshop, 2012.

Research Publications

1. **Nasor, Mohamed**, and Walid Obaid. "Segmentation of Osteosarcoma in MRI Images by K-means Clustering, Chan-Vese Segmentation, and Iterative Gaussian Filtering, "IET Image Processing. Accepted for publication (date 10/9/2020).
2. **Nasor, Mohamed**, and Walid Obaid. "Detection and Localization of Early-Stage Multiple Brain Tumors Using a Hybrid Technique of Patch-Based Processing, k-means Clustering and Object Counting." International Journal of Biomedical Imaging (2020).
3. **Nasor, Mohamed**, and Sharaz Ali. "Performance Analysis and Ranking of Data Mining Algorithms across Multiple Datasets." 2019 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT).
4. **Nasor, Mohamed**, and Walid Obaid. "Detection and localisation of multiple brain tumours by object counting and elimination." IET Image Processing 14.4 (2019): 615–620.
5. **Nasor, Mohamed**, and Walid Obaid. "MRI Tumor Detection and Localization by Multiple Threshold Object Counting Technique." 2018 International Conference on Computer and Applications (ICCA). IEEE, 2018.
6. **Nasor, Mohamed**, et al. "Eye-controlled mouse cursor for physically disabled individual." 2018 Advances in Science and Engineering Technology International Conferences (ASET). IEEE, 2018.
7. Rahman, K.M., Subashini, M. M., **Nasor, M.** and Tawfik, A. "Development of bio-shields for Arduino Uno." 2018 Advances in Science and Engineering Technology International Conferences (ASET). IEEE, 2018.
8. Imran, Ahmed, **Mohamed Nasor**, and Fahar Hayati. "The role of physics and mathematics courses in influencing students' performance in engineering programs." Engineering Leaders Conference 2014 on Engineering Education. Vol. 2015. No. 4. Hamad bin Khalifa University Press (HBKU Press), 2015.
9. Rahman, KK Mujeeb, and **Mohamed Nasor**. "Multipurpose low cost bio-daq system for real time biomedical applications." 2015 International Conference on Information and Communication Technology Research (ICTRC). IEEE, 2015.
10. Mujeeb Rahman, **Mohamed Nasor**, "Low Cost Bio-Electric signal acquisition system for Biomedical research applications", 4th International conference on Bio-sensing Technology, 10–13 May 2015, Lisbon, Portugal.
11. Imran, A., **M. Nasor**, and F. Hayati. "Do women pursue programs in engineering? A case study from the United Arab Emirates." 2014 International Conference on Interactive Collaborative Learning (ICL). IEEE, 2014.
12. Imran, Ahmed, **M. Nasor**, and F. Hayati. "Attracting, engaging and retaining students in engineering programs- A case study." 2014 IEEE Global Engineering Education Conference (EDUCON).
13. Imran, Ahmed, **Mohamed Nasor**, and Fahar G. Hayati. "Factors influencing attrition in a biomedical engineering program." Procedia-Social and Behavioral Sciences 102 (2013): 402–405.
14. Imran, A., **M. Nasor**, and F. Hayati. "Enhancing student retention in undergraduate engineering programs." 120th Annual Conference, American Society for Engineering Education (ASEE). 2013.
15. Burke, M. J., and **M. Nasor**. "ECG analysis using the Mexican-hat wavelet." Int. Conf. Multirate Systems & Wavelet Analysis. 2012.
16. Imran, A., **M. Nasor**, and F. Hayati. "Relating grades of math and science courses with

- students' performance in a multi-disciplinary engineering program: a gender inclusive case study." *Procedia-Social and Behavioral Sciences* 46 (2012): 3989–3992.
17. Imran, Ahmed, **Mohamed Nasor**, and F. Hayati. "Gender-based statistical analysis of students in engineering programs over ten years." *Engineering Education in the 21st Century- Quality, Globalization and Local Relevance* (2012): 343–347.
 18. Rahman, Mujeeb, and **Mohamed Nasor**. "An algorithm for detection of arrhythmia." 2011 1st Middle East Conference on Biomedical Engineering.
 19. **Nasor, M.**, A. Imran, and F. Hayati. "Achieving enhanced performance in undergraduate biomedical engineering program." *ICIE (Germany) Conference on Excellence in Education 2011: Giftedness-Creativity-Development*.
 20. Imran A, **Nasor M.**, Hayaty F. "analysis of students' school results and performance in engineering programs: a case study." *International Journal on New Trends in Education and Their Implications* 2.4 (2011): 38–43.
 21. Osman, M., **M. Nasor**, and A. Imran. "Automated Wireless System for Individuals Requiring Continuous Remote Care." 6th World Congress of Biomechanics (WCB 2010). August 1–6, 2010 Singapore. Springer, Berlin, Heidelberg, 2010.
 22. Osman, Mohammed, **Mohamed Nasor**, and Ahmed Imran. "Connected Healthcare Solution Using Cell Phone." *Frontiers in Biomedical Devices*. Vol. 49453. American Society of Mechanical Engineers, 2010.
 23. Shams, Tahereh, Fereshteh Rahi, Mustahsan Mir, and **Mohamed Nasor**. "Home ECG system: Signal processing and remote transmission." 2009 IEEE International Symposium on Signal Processing and Information Technology (ISSPIT).
 24. Burke, M. J., and **M. Nasor**. "Wavelet based analysis and characterization of the ECG signal." *Journal of Medical Engineering & Technology* 28.2 (2004): 47–55.
 25. Burke, M. J., and **M. Nasor**. "The time relationships of the constituent components of the human electrocardiogram." *Journal of medical engineering & technology* 26.1 (2002): 1–6.
 26. Burke, M. J., and **M. Nasor**. "An accurate programmable ECG simulator." *Journal of medical engineering & technology* 25.3 (2001): 97–102.
 27. Burke, Martin J., and **M. Nasor**. "Wavelet analysis of the timing of individual components of the ECG signal." 2001 IEEE International Conference on Acoustics, Speech, and Signal Processing. Proceedings (Cat. No. 01CH37221). Vol. 2.
 28. Mujeeb Rahman, **Mohamed Nasor** "An algorithm for detection of arrhythmia " *International Journal of Biological Engineering*, p-ISSN: 2163-1875, e-ISSN: 2163-1883, 2012; 2(5): 44–47, DOI: 10.5923/j.ijbe.20120205.02.
 29. **Mohamed Nasor**, Armita F., Shahin B., Fereshteh F. Imane H. Remote monitoring and tacking system for patients with Alzheimer, *International Conference on Communications, computer Science and Information Technology*, 2016, DOI:11.ICCCSIT.2016.1.23.