

1. Name: **Riadh Zaier**
2. Education:
 - Ph.D. Mechanical Engineering, Nagoya Institute of Technology, Japan, 1999
 - M. Sc. Mechanical Engineering, Nagoya Institute of Technology, Japan, 1996
 - B. Sc. Mechanical Engineering, National Engineering School of Tunis, Tunisia, 1991
3. Academic experience:
 - Mechanical & Industrial Engineering, Sultan Qaboos University, Associate Professor, 2018- Present
 - Mechanical & Industrial Engineering, Sultan Qaboos University, Assistant Professor, 2009- 2018
 - Mechanical & Industrial Engineering, Sultan Qaboos University, Visiting Professor, Feb 2009- May 2009.
 - Nagoya Institute of Technology, Japan, Teaching Assistant, 1996- 1999
4. Non-academic experience:
 - Business Incubation Laboratories, Fujitsu Laboratories Limited, Japan, Senior Researcher, (2003- 2009), Full-time.
 - Fujitsu Automation Ltd, Japan, Researcher, (1999- 2003), Full-time.
5. Certifications or professional registrations: -
6. Current membership in professional organizations: -
 - Member, the Institute of Electrical and Electronic Engineers (IEEE), 2001-present.
 - Member, the Robotics Society of Japan (RSJ), 2002-2009
7. Honors and awards: -
 - Recognized as a 2022 Oman Scientist by AD Scientific Index
 - Best paper award at the Second International Conference in Business & Economics, Muscat, December 12-13, 2022.
 - Best Presentation Award, the 2nd International conference on Innovation Challenges in Multidisciplinary Research & Practice, Kuala Lumpur, Malaysia, 17-18 December 2014.
 - Best Paper Award, the 14th International Conference on Climbing and Walking Robots, Paris, France, 6-8 September 2011
8. Service activities (within and outside of the institution): -
 - Coordinator, Mechatronics Engineering Program, 2011-2014, 2017-2020, 2023-present
 - Accreditation committee coordinator (ABET), 2011-2014 and 2017-2020.
 - Co-Chair of Workshops at UVS-Oman conference, 12-14 Feb 2024, Oman, Muscat.
 - Guest Editor, MDPI Sustainability - Special Issue "Advanced Design and Control Solutions for Grid-Interactive Energy Efficient Buildings", 2024
 - Reviewer for the 2nd GCC International Conference on Industrial Eng. And Operations Management. Journal papers, 2024.
 - Reviewer for CLAWAR 2024.
9. Briefly list the most important publications and presentations from the past five years: -

- A. Zeid, A. Al-Yahmedi, **R. Zaier**, I. Bahadur Multi-objective design optimization of an in-pipe inspection robot, (2024), Franklin Open, Volume 6.
- H Gultekin, R Zaier, A Al-Yahmedi, (2024) Developments Scheduling Parallel Machine Robotic Cells with Energy Consumption Objective, *Proceedings of the International Conference on Sustainability: Developments and Innovations*, pp 198-206
- A. Zeid, A. Al-Yahmedi, **R. Zaier**, I. Bahadur (2023), Design and Control of a Diameter-Adaptable In-Pipe Inspection Robot, *2023 IEEE 4th International Multidisciplinary Conference on Engineering Technology*, pp 27-31
- S. Gismelseed, A. Al-Yahmedi, **R. Zaier**, H. Ouakad, I. Bahadur (2023), Predicting Sit-to-Stand Body Adaptation Using a Simple Model, *Axioms*. pp 559
- S. Gismelseed, A. Al-Yahmedi, **R. Zaier**, (2023), A biped model to predict a wide range of gait and posture results, Franklin Open, Volume 3.
- **R. Zaier**, O. Dirdiry, (2021), Legged robot design and Van der Pol oscillator-based control approach, *International Journal of Modelling, Identification and Control*. 2022, pp 282-290
- F. Alnajjar, **R. Zaier**, S. Khalid, and M. Gochoo, (2021). Trends and Technologies in Rehabilitation of Foot Drop: A Systematic Review, *Expert Review of Medical Devices*. pp 31-46
- S. Gismelseed, A. Al-Yahmedi, **R. Zaier**, H. Ouakad, I. Bahadur (2021), An efficient discrete model of a simple biped with a torso, *10th ECCOMAS Multibody Conference 2021*. pp 6-15
- M. Sayari, N. Masmoudi, **R. Zaier** (2020), Bio-inspired cpg based locomotion for humanoid robot application, *Proceedings of the 8th Conference on Design and Modeling of Mechanical Systems*. pp. 910-918
- O. Eldirdiry, **R. Zaier**, A. Al-Yahmedi, I. Bahadur, and F. Alnajjar, (2020), Modeling of a biped robot for investigating foot drop using MATLAB/Simulink, *Simulation Modelling Practice and Theory*, vol. 98.
- **R. Zaier**, O. Dirdiry, (2019). Legged Robots with Human Morphology: Design and Control. *2019 International Conference on Signal, Control and Communication*, SCC 2019.
- M. Sayari, **R. Zaier**, N. Masmoudi (2020), Perfect tracking of ZMP trajectory for humanoid locomotion using repetitive control, *Journal of Mechanical Science and Technology*, pp. 6037-6043.
- O. Eldirdiry, **R. Zaier**, I. Bahadur, A. Al-Yahmedi, A. Boudaka (2019) Towards foot-drop correction using a simulation of bio-inspired robotic legs, *2019 IEEE 4th International Conference on Advanced Robotics and Mechatronics*. pp. 780-785.

10. Briefly list the most recent professional development activities: -

- Research-Driven Teaching: Exploring Action Research in Higher Education, SQU, Oman Nov. 2024
- *Confronting the Challenges: Generative AI in Academic Research*, SQU, Oman, April 2024
- *OQF Full-Day Workshop*, Avani Muscat Hotel, Oman, Jan. 2024
- *The Awareness Raising Sessions about the Strategies Used for Implementing*
- *SQU Teaching Philosophy and Teaching and Learning Methodologies*, Prof. Ali Al-Issa, SQU, Oman, Nov. 9, 2023