

1. Name: **Ramanathan Arunachalam**
2. Education – degree, discipline, institution, year: -
  - Ph.D. Manufacturing Engineering, National University of Singapore, Singapore, 2005
  - M.E Manufacturing Engineering, National University of Singapore, Singapore, 1999
  - B.E. Mechanical Engineering, Annamalai University, India, 1994
3. Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate), when (ex. 1990-1995), full time or part time: -
  - Mechanical & Industrial Engineering, Sultan Qaboos University  
Assistant Professor, 2011-Present
  - Engineering Department, Al Musanna College of Tech, Oman  
Lecturer, 2010-2011
  - Mechanical Engineering Department, Sona College of Technology, India  
Assistant Professor, 2004-2005  
Professor, 2005-2010
4. Non-academic experience – company or entity, title, brief description of position, when (ex. 1993-1999), full time or part time: -
  - Enmas Engineering Enterprises (P) Ltd., Chennai, India, Project Engineer, Design of bio-mass based power plants and vendor development, 1994-96, full-time
5. Certifications or professional registrations: -
6. Current membership in professional organizations: -
  - Life member of Indian Society for Technical Education (ISTE)
  - Member of American Society for Engineering Education (ASEE)
  - Life active member of Society for Advancement of Electrochemical Science and Technology (SAEST)
7. Honors and awards: -
  - National University of Singapore (NUS) Research Scholarship, 1997-1999 & 1999-2004
  - Awarded Department of Science & Technology, Government of India, Fast track proposal for young scientists, 2007
  - Awarded All India Council for Technical Education (AICTE) Career Award for Young Teachers (CAYT), 2008
8. Service activities (within and outside of the institution): -
  - 19 invited talks delivered in other institutions, (2005-2018)
  - Chair of several thesis examination committees, SQU (2012-2018)
  - Five traineeship offered for the International Association for the Exchange of Students for Technical Experience (IAESTE), SQU (2013-2018)
  - Mech. Eng. Program ABET Coordinator, SQU (2016-2019)
9. Briefly list the most important publications and presentations from the past five years: -

- Pradeep Kumar Krishnan, John Victor Christy, Ramanathan Arunachalam, Abdel-Hamid I. Mourad, Rajaraman Muraliraja, Majid Al-Maharbi, Venkatraman Murali and Majumder Manik Chandra, (2019) Production of Aluminum Alloy-based Metal Matrix Composites using Scrap Aluminum Alloy and Waste Materials: Influence on Microstructure and Mechanical Properties, *Journal of Alloys and Compounds*, Vol. 784, pp 1047-1061.
- R Muraliraja, R Arunachalam, Ibrahim Al-Fori, Majid Al-Maharbi and Sujana Piya, (2019) Development of alumina reinforced aluminum metal matrix composite with enhanced compressive strength through squeeze casting process, *Journal of Materials: Design and Applications*, Vol. 233(3), pp 307–314.
- R. Arunachalam, R.K.Vishnu Prataap, R. Pavul Raj, S. Mohan, J. Vijayakumar, L.Péter and Mahmoud Al Ahmad, (2019) Pulse electrodeposited RuO<sub>2</sub> electrodes for high-performance supercapacitor applications, *Surface Engineering*, Vol. 35 (2), pp 103-109.
- R.K. Vishnu Prataap, R. Arunachalam, R. Pavul Raj, S. Mohan, L. Peter, (2018), Effect of electrodeposition modes on ruthenium oxide electrodes for supercapacitors, *Current Applied Physics*, Vol. 18, pp 1143–1148.
- R. Thanigaivelan, R.M.Arunachalam, Mukesh Kumar and Bhanu Prakash Dheeraj, (2018) Performance of Electrochemical Micromachining of Copper through Infra-red Heated Electrolyte, *Materials and Manufacturing Processes*, Vol. 33(4) pp 383-389.
- Mahmoud M. A. Nassar, Ramanathan Arunachalam and Khalid I. Alzebdeh, (2017), Machinability of natural fiber reinforced composites: a review, *The International Journal of Advanced Manufacturing Technology*, Vol. 88 pp 2985–3004.
- Ramanathan Arunachalam, Sathish Kannan and S. Z. Qamar. (2017) Techniques, Trends, and Advances in Conventional Machining Practices for Metals and Composite Materials, In: *T. S. Srivatsan, T. S. Sudarshan, & K. Manigandan (Eds.), Manufacturing Techniques for Materials Engineering and Engineered*, CRC Press, pp 637–673.
- Ramanathan Arunachalam, Srinivasu, D. S., and Thanigaivelan, R. (2017) Advances and Applications of Nontraditional Machining Practices for Metals and Composite Materials, In: *T. S. Srivatsan, T. S. Sudarshan, & K. Manigandan (Eds.), Manufacturing Techniques for Materials Engineering and Engineered*, CRC Press, pp. 675–716.
- R.Arunachalam, R. Pavul Raj, S. Mohan, L.Peter and R.K.Vishnu Prataap, “Effect of Different Modes of Electrodeposition on the Morphology of Ruthenium Oxide Deposited From Ruthenium Nitrosylsulfate Electrolyte for Supercapacitor Applications” In: *Proceedings of the XXXI International Conference on Surface Modification Technologies*, University of Mons, Mons, Belgium, 5-7 July 2017.
- Arunachalam Ramanathan, Sayyad Zahid Qamar, Nabeel Z Al-Rawahi, “Engineering Design Education in an Activity-Based Learning Environment” In: *Proceedings of the 8th International Forum on Engineering Education*, University of Sharjah, UAE, 18-20 April 2017.

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

- *Creating Significant Learning through Integrated Course Design*, by Stewart Ross, SQU, Oman, 12 Sept 2018
- *Using Technology For Deeper Learning*, by Patrick Guilbaud, SQU, Oman, 25 Dec 2017
- *Critical Thinking Skills for the 21st Century*, by Nikos Mourtos, SQU, Oman, 16 May 2017
- *Introduction to CDIO Initiative*, by Juha Kontio, SQU, Oman, 18 May 2017
- *How to Teach Engineering Students Process Skills?* by N. Mourtos, SQU, 26-28 May 2015.