**Name: Dzung DAO**

**Curriculum Vitae**

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**Current positions**

* Professor, Mechanical Engineering, Griffith University
* Director, Mechatronics Engineering Program, Griffith University

**Education/Qualifications**

* 2003 PhD in Electro-Mechanical Systems, Ritsumeikan University, Japan
* 1997 M.Eng Mechanical Eng., Hanoi University of Science and Technology (HUST), Vietnam
* 1995 B.Eng Informatics-Mechanical Engineering, HUST, Vietnam

**Professional History**

* 2017 to 4/2023: **Head**, Mechanical Engineering Discipline, School of EBE, Griffith, *AUSTRALIA*.
* 2021 to present: **Professor**, *School of EBE, Griffith Uni, AUSTRALIA*.
* 2011 to 2021: **Senior Lecturer, and A**/**Professor**, *School of EBE, Griffith Uni, AUSTRALIA*.
* 2021 to 2022: **Co-chair**, National Committee on Control Eng. & Industry 4.0, Engineers Australia.
* 2019-2021: **Chair,** National Committee on Mechatronics, Engineers Australia
* Apr 2007 to Dec 2011: **Chair Professor**, *MEMS*, *Ritsumeikan University, JAPAN.*
* Apr 2006 to Mar. 2007: **Lecturer**, *MEMS, Ritsumeikan University, JAPAN.*
* Apr 2003 to Mar 2006: **Postdoctoral fellow**, *Ritsumeikan University, JAPAN.*
* Sept 1995 to Sept 1999: **Lecturer**, *Mechanical Engineering, HUST, VIETNAM.*

**Teaching area**

* Mechanical Engineering Design, Mechatronics System Design, Electromechanics, Manufacturing Technology, Kinematics and Dynamics.

**Research area**

* Optoelectronic and Sensing effects in nanostructured materials, semiconductors
* Micro/Nano Electromechanical Systems (MEMS), MEMS Sensors, Actuators, energy harvesters
* Advanced Manufacturing: Micro/Nano machining technology, Additive manufacturing
* Wireless sensor network

**Publications:** 235 Journal papers, 190 Conference papers, 6 book/book-chapters

**Publication Citations:** 7150, **H-index:** 43 (Google scholar)

**Patents** (filed and granted): 18

**Research Grants: > $11.5M** in total**.** Grants received within the last 5 years are shown below:

1. ARC DP, **Lead CI**, 2022-2025, “*Nano optoelectronic: towards an ultrasensitive sensing*", **$585k**
2. ARC LIEF, CI, 2023, *National Facility for Characterisation of Infrared Technologies*, **$690k**
3. CCR (Geoinventions), 2023, “Robust sensors for geotechnical applications”, **$35k**
4. CCR (Dentroid), 2023, “Clamping mechanism for intraoral laser manipulator”, **$25k**
5. Griffith Infrastructure, **Lead CI**, 2022 "*Etching facility for MEMS sensors fabrication*", **$280k**
6. Griffith Sciences, CI, 2022, “*Integrated Quantum Efficiency Measurements System*”, **$109k**
7. Griffith Sciences, CI, 2022, “*A set of 3D Laser Scanning Microscope System*”, **$90k**
8. Griffith Sciences, CI, 2022, “*Transient Plane Source Thermal Conductivity Analyser*”, **$90k**
9. ARC LIEF, CI, 2022, Facility for enabling low thermal budget Si/SiGe technologies, **$580k**
10. IMCRC, **Lead CI**, 2021-2022, "*Smart sensor system for soft soil engineering & safety*", **$125k**
11. IMCRC, **Lead CI**, 2021-2022, *Miniaturised laser manipulator for ultra-precise dentistry*, **$225k**
12. ARC LIEF, CI, 2021, *Femtoliter Liquid Deposition Facility*, **$183k**
13. CSIRO-DFAT, **Lead CI**, 2020-2022, “*Low-power Wireless Flood Sensor Network*”, **$400k**
14. CCR (Dentroid, Australia), **Lead CI,** 2020-2022, **$30k**
15. IMCRC, CI, 2020-2022, “*R2R printing for cost effective manufacturing of a Smart Patch for health monitoring*”, **$1,436,437**
16. CCR (Industry: Overseas), CI, 2019-2020, “*Ultra-sensitive pressure sensor*”, **$110k**
17. Foundation for Australia-Japan Studies (FAJS) grant, **lead CI**, 2019-2020, “*Superior Sensor Network (SSN) for Harsh Environments*”, **$145,000**
18. Griffith Science Equipment round, **lead CI**, 2019, “*Opto-Electro-Mechanical Measurement Suite*”, **$165,000**
19. ARC LIEF project,CI, 2019, “A femtosecond laser micromachining facility”, **$438k**
20. Griffith University Infrastructure Grant, CI, 2019 (CI)**: $385k**
21. Griffith University Infrastructure Grant, CI, 2019 (CI): **$323k**
22. ARC DP, CI, 2018-2021, “*Magnetofluidic sample handling for enhanced PoC diagnosis*”, **$473k**
23. ARC LP, **Lead CI**, 2017-2021, “*Superior Silicon Carbide Nanoscale Sensors (SCANS) for Harsh Environments*”, **$563,000** ($160,000 from SPT Microtechnologies, USA)
24. IMCRC project, CI, 2017-2022, “*Develop and manufacture a smart electric compressor*”, **$850,000** (50% from industry partner: SuperCool Australia)
25. ARC LIEF, CI, 2018, “*Xe-plasma dual beam for advanced future materials*”, **$1,136k**
26. Griffith University Infrastructure Grant (CI, 2017): **$115k**

**HDR Supervision:** I have successfully supervised to completion of 25 PhD students, all of them have secured good jobs in academia and industry. Notably, 3 of my recent graduates were awarded DECRA.

**Awards/Recognition**

* World's top 2% most-cited scientists in Applied Physics (Stanford rankings 2021-2022)
* Top 1 researcher worldwide for publications & citations in *SciVal Topic Cluster of Pressure Sensors, Sensors*.
* Vice Chancellor’s Research Excellence Award – Excellent Research Team, 2021
* Pro Vice Chancellor’s Research Excellence Award – Excellence of Research Group, 2020
* Best Paper Award, 5th SDM, Gold Coast, Australia, 6/2018.
* Gold Coast City Mayor Award for outstanding contribution to Gold Coast City, 2016
* Best Oral Presentation Award, ICNNE 2016, Paris, France, 6/2016.
* Best Paper Award, 5th Bio4Apps, Gold Coast, Australia, 12//2016.
* Best Paper Award, IEEE MHS2008, Nagoya, Japan, 10/2008.
* Best Student Paper Award, APCOT2006, Singapore, 2006

**Industry Collaborations**

* 2021-present, Geoinventions, Australia. Total funds received: **$160k**
* 2020-present, Dentroid. Total funds received: **$250k**
* 2019-2020, Rio Tinto (sponsor through the Foundation for Australia-Japan Studies). Project “Superior Sensor Network (SSN) for Harsh Environments”. Total funds: **$145k**
* 2017-2020, SPT Microtechnologies (USA) in my ARC LP "Superior Silicon Carbide Nanoscale Sensors (SCANS) for Harsh Environments".
* 2017-2020, SuperCool Asia Pacific Pty Ltd (Australia) in the Innovative Manufacturing CRC Project "Develop and manufacture a smart electric compressor for refrigeration and air conditioning on electric vehicles".
* From 2003 to 2011, I collaborated with various companies in Japan to conduct R&D projects. These companies are Olympus Corp, Omron Corp, Konica-Minolta Inc, Tamagawa Seiki, Horiba Corp, Towa Corp, Microstone, and Tokairika Co Ltd.

Through these collaborations, I gained valuable experience working with industry professionals and was able to apply my research to real-world applications.

**Editorial Board and Professional Committees**

* Discipline Expert (Mechanical & Mechatronics), EA Accreditation Panel, since 2015
* Associate Editor, Sensors and Materials, MYU KK, Tokyo, Japan
* Editorial Board Member, J. Adv. Nat. Sci: Nanosci. Nanotechnol., IOP, UK.
* Editorial Board Member, Sensors Journal, MDPI
* Editorial Board Member, J. Sensors, Hindawi Publishing Corporation.
* General Chair of the 5th Bio4Apps,2016, Gold Coast, Australia
* General Chair, 5th Int’l Conf. on Sustainable Design and Manufacturing, Australia, June 2018.