609 Stafford Glen Ct, Stafford, VA, 22554
Phone 703-485-6378
E-mail wangyezuo@gmail.com

Yezuo Wang

Education

Aug 2007– Aug 2009 Virginia Commonwealth University, Richmond, VA
Master of Science in Mechanical Engineering

Sep 2000– June 2004 Univ. of Electronic Science and Technology of China, Chengdu, Sichuan
Bachelor of Science in Electrical Engineering

Professional experience

Aug 2009 - Present Department of Mechanical Engineering, VCU Richmond, VA
Lab Manager / Research Assistant

- Design the microfabrication process for Mag-MEMS using Photolithography, PVD, Etching
- Build up the experimental platform for Multiscale Materials and Dynamics Laboratory.
- Write the Standard Operation Procedure of the instruments in Virginia Microelectronics Center.
- Discuss research direction with advisor and implement the experiments.

Aug 2008-Aug 2009 Department of Mechanical Engineering, VCU Richmond, VA
Teaching Assistant

- Assist professor in undergraduate courses for more than 90 students enrolled.
- Offer help to students with their homework outside of class.
- Grade the homework and quiz for undergraduate students enrolled in class.

Aug 2007 – Aug 2008 Department of Mechanical Engineering, VCU Richmond, VA
Research Assistant

- Grow ZnO nanowire on silica/sapphire substrate by CVD method.
- Manipulate AFM and SEM to analyze the characterizations of grown samples.
- Design prototype of a state-of-the-art multifunctional SPM probe using microfabrication process including photolithograph, evaporation, wet etch.

July.2004 – Jan.2007 R&D Center of TCL-THOMSON Electronics Corp. Shenzhen, Guangdong, China
Electronic Engineer

- Design the driving circuit board for TV model 14F512T & 20F420T sold as RCA in Wal-mart.
- Use the ERP system (SAP-ERP) to track the design and manufacture process, create and check ECNs for improvement in manufacturing and instant problem solving.
- Establish and continuously modify the BOM (Bill of Material) during design and trial run process.
- Track manufacture process and quality of the mass production by SPC chart.

Rewards and Leadership

- 2003~2004

  "A" level comprehensive quality student of Sichuan Province
- 2005~2006

  Excellent employee in R&D Center of TCL-THOMSON Electronics Corporation
- 2002~2003

  Vice president of student union of University of Electronic Science and Technology of China

Core Course

- Micro-Electro-Mechanic Systems
- Modeling of MEMS Devices
- Manufacturing Processes
- Advanced Manufacturing Simulations
- Design Optimization
- Modeling Methods for Active Materials
- Quantum Mechanics
- Advanced Solid State Physics
- Organization Leadership & Project Team Management

Core Course GPA: 4.0/4.0

Overall GPA: 3.54/4.0

Publications

Y. Wang, J. Atulasimha, et al, "Nonlinear magnetoelectric behavior of Terfenol-D/PZT-5A laminate composites", 2010, Smart Mater. Struct. 19 125005

Y. Wang, J. Atulasimha, et. al, , "A dexterous surgical manipulation tool using self-sensing magnetoelectric actuators", Proceedings of the ASME 2010 Conference on Smart Materials, Adaptive Structures and Intelligent Systems, SMASIS2010-3692

Y. Wang, J. Atulasimha, et. al , "Thickness ratio effects on quasistatic actuation and sensing behavior of laminate magnetoelectric cantilevers", Proceedings of SPIE Smart Structures/NDE 2010,Paper 7644-40

J. Atulasimha, Y. Wang, et al, "Magnetoelectric Cantilever for Collocated Actuation and Sensing Applications: Experimental Study, MODEL and Scaling Laws", Proceedings of the ASME 2009 Conference on Smart Materials, Adaptive Structures and Intelligent Systems, SMASIS2009-1351