

Jin-Hwa (Joey) Chiu

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EDUCATION

M.S. Mechanical Engineering | National Chiao Tung University (NCTU) | Hsinchu, Taiwan 2013-Feb.2016

Relevant courses: Finite Element Methods, Signals and Systems, Design of Innovation and Design Around, Reliability Engineering, Surface Science and Engineering, Variational Mechanics, Mechanics of Composite Materials, Introduction to Computers and Programming

B.S. Mechanical Engineering | National Chiao Tung University (NCTU) | Hsinchu, Taiwan 2009-2013

Relevant courses: Intermediate Mechanic of Materials, Automatic Control, Energy Technology, Computer Programming

SKILLS

Computer Skills

- Proficiency in programming languages & statistical data processing software - Python, Django, C, Excel
- Web Design by Django framework, Bootstrap (HTML5, CCS3, Bootstrap)
- Proficiency in engineering graphic data presentation software - Solidworks, ProE
- Proficiency in structural and mechanical analysis software - ANSYS Mechanical, APDL, ABAQUS
- Proficiency in fluidic analysis software - FLUENT, CFX, ICEM CFD

Languages

- Mandarin (mother tongue)
- English (TOEFL IBT: Total 89)

EXPERIENCE

Engineer at R&D Production Center, TSMC 09/2016-Present

- Develop a Defect image recognition by Machine Learning
- Enrolled in Machine Learning Training Program
- Monitor and maintain N7/5/3 STI/IMD/ILD CMP by EBARA's equipment system
- Analyze the process ability (SPC, FDC, ECS) and the wafer defect
- Improve the process stability by altering the equipment construction

Mechanical R&D Engineer, ASUSTek COMPUTER INC 07/2016-08/2016

- Design shielding frames of ZenFone3 (ZE520KL)

Cooperative Postgraduate, Institute of Physics, Academia Sinica 12/2013-12/2014

- Studied mechanics of the biochemical material and fabrication of Hydrogel spheres by Microchannels
- Assisted in constructing and designing equipment components with visiting scholars and research assistant

Product Designer, Healing Science and Creativity Contest of University System of Taiwan 12/2012-11/2013

- Designed the product appearance and mechanism of our new technology bracelet by Solidworks software
- Simulated the drop test in ABAQUS and ANSYS Mechanical

Participant, Young Entrepreneurs of the Future - YEF 02/2013-08/2013

- Organized a business model with various background teammates to earn venture capital
- Studied medical healthcare business projects to perform a marketing project

Table-Tennis Athlete, Varsity Table-Tennis Team of NCTU 09/2009-06/2012

- Represented NCTU to attend several table-tennis competitions in Taiwan

RESEARCH PROJECTS

Torque Analysis of Darrieus Vertical Axis Wind Turbine with Wind Guiding Panels 01/2015-02/2016

- Used FLUENT software to analyze the lift/drag force of airfoil by fluid simulation
- Designed a new Darrieus Vertical Axis Wind Turbine with wind guiding panels by Solidworks
- Analyzed torque of the Darrieus Vertical Axis Wind Turbine by changing relative angle of incoming wind

Fabrication of Uniform Hydrogel Spheres by Microfluidic Channels 07/2014-12/2014

- Create a method of abundantly fabricating hydrogel spheres with uniform size
- Construct a 3D tissue scaffold by hydrogel spheres

Measurement of Mechanical Properties of Gelatin Standard Samples 02/2014-08/2014

- Establish a standard procedure of measuring Young's and Storage modulus of a standard gelatin samples

AWARDS

- Second prize, Healing Science and Creativity Contest of University System of Taiwan 11/2013
- Certificate, YEF Entrepreneurial Workshops 08/2011

LEADERSHIP

- Vice-President**, Mechanical Engineering Department Table-Tennis Team of NCTU 2011-2013
- Organized various training programs for team members