**Curriculum Vitae**

**CHIA-HUNG HUNG**

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| **Education** |

Missouri University of Science and Technology 01/2016-Current

PhD student in Mechanical Engineering Supervisor: Dr. Ming Leu

Research Topic: Laser Foil Printing Technology

National Taiwan University of Science and Technology, Taipei, Taiwan 09/2011-06/2014 Master in Mechanical Engineering GPA: 3.75  
Supervisor: Dr. Fuh-Yu Chang

Thesis Title: A Study of Nitinol Biliary Stent Fabrication by

Femtosecond Laser Ablation Process

National Taiwan University of Science and Technology, Taipei, Taiwan 09/2007-06/2011  
Bachelor in Mechanical Engineering GPA: 3.83 Rank: 3/81

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| **Research Experience** |

* **Visiting Graduate Student, Missouri University of Science and Technology, USA 0**5/2013-04/2014

**Supervisor: Professor Hai-Lung Tsai**

Conduct research in femtosecond laser mircromachining:

* Using a femtosecond laser beam to dissociate water to hydrogen and oxygen and utilize this phenomenon on improving the efficiency of glass drilling process.
* Set up a dual-beam laser system which is combined femtosecond and nanosecond laser to integrate into a laser beam to manufacturing non-conductive materials.
* Design an laser beam system to separate a pulse to two pulse, and freely alter the first pulse and second pulse energy proportion.
* **Research assistant, Industrial Technology Research Institute (ITRI), Taiwan**  07/2011-03/2013
* Develop a novel method for enhancing the laser ablation rate and reducing the amount of energy accumulated within the materials of a NiTi tube in femtosecond laser micromachining process with galvano-mirror scanner.
* Through the unique characteristics of Gaussian laser beam fabricates rounded edges of nitinol biliary stent from sharp and square edges.
* Forming microstructure on nitinol surfaces to enhance the wettability by femtosecond laser scanning.

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03/2008 First Bank Scholarship (US$304)

07/2010 Scholarship of industrial human resources training program in the field precision machinery, Industrial Development Bureau, Ministry of Economic (US$923)

09/2010 Lung-Shan Temple Scholarship (US$304)

05/2013-04/2014 Research grant for overseas internship (US$13,521), Ministry of Education, Taiwan  
Pilot Overseas Internships, Missouri University of Science and Technology, MO, USA

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| **Honors** |

1st Semester, 2007 Certificate of Excellence, National Taiwan University of Science and Technology

2nd Semester, 2007 Certificate of Excellence, National Taiwan University of Science and Technology

1st Semester, 2008 Certificate of Excellence, National Taiwan University of Science and Technology

2nd Semester, 2008 Certificate of Excellence, National Taiwan University of Science and Technology

1st Semester, 2009 Certificate of Excellence, National Taiwan University of Science and Technology

2nd Semester, 2009 Certificate of Excellence, National Taiwan University of Science and Technology

06/2010 Optimal Mechanism Design, NTUST Robot Competition, National Taiwan University of Science and Technology, Taiwan

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| **Employment** |

06/2009-07/2010 Intern, Asus Campus Executive Officer Program, Taiwan

ASUS Campus Executive Officer Program to accomplish the business tasks and conducted marketing training; reported market analysis and execution performance to the managers.

01/2015-01/2016 Substitute Military Service, Beitou Refuse Incineration Plant, Department of Environment Protection, Taipei City Government, Taiwan