

Ian Huang

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EDUCATION

University of Michigan – Ann Arbor

April 2016

Bachelor of Science in Mechanical Engineering

- University of Michigan Dean's List, University of Michigan Honors (Winter 2015)
 - Courses Taken: Machining and Manufacturing Processes, Automatic Controls, Engineering Analysis, Signals and Systems
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PROJECTS

Pelico LLC

Ann Arbor, MI

Manual Stair Climbing Wheelchair

Fall 2015

- Designed a tri-wheel for the front wheel of the wheelchair that can rotate on two axes
- Proved 1, 4, and 5-bar linkages won't satisfy path of motion and force balancing for climbing stairs
- Operated the lathe, mill, waterjet cutter, bandsaw, and 3D printing to create aluminum and plastic parts
- Designed tri-wheel parts on SolidWorks

Machining Processes Class Project

Ann Arbor, MI

Distance Sensor for Electric Bone Drill

Fall 2015

- Designed and constructed a prototype sensor to quantify time and distance of bone drilling using Arduino
- Provided solutions for recording data for the performance of students learning how to drill bone

Design and Manufacturing II

Ann Arbor, MI

Laser Beam Reflector

Winter 2015

- Designed and constructed a 4-bar linkage system to deflect laser beams onto a stationary target

Design and Manufacturing I

Ann Arbor, MI

MBALL Competition Robot

Winter 2014

- Designed and constructed a vehicular robot for the University of Michigan MBALL competition
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WORK EXPERIENCE

Exosite

Taichung, Taiwan

Testing Intern

05/2014 – 08/2014

- Wrote JS script using Selenium Web Browser Automation to test and debug customer's website portals
- Researched market for cloud servers in Taiwan

National Taiwan University

Taipei, Taiwan

Research Assistant

05/2013 – 08/2013

- Experimented with the heat transfer and dissipation of satellite IC chips at different outputs of power
 - Analyzed the optimization of heat dissipation required to satisfy specifications
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LEADERSHIP

Asian Intersvarsity Christian Fellowship

Ann Arbor, MI

Small Group Leader

2013-2015

- Organized and facilitated weekly discussions and monthly events for the community group

Bread of Life Christian Church

Taipei, Taiwan

Volunteer

2008-2011

- Coordinated the logistical management of 2000 person APAC Children & Youth Conference, including scheduling, room management and allotment, etc.
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SKILLS & ABILITIES

SOFTWARE - SolidWorks, Autodesk Inventor, Matlab, MSC Adams, C++, JavaScript

MACHINING - Mill, Lathe, Drill Press, Bandsaw, Waterjet Cutter

LANGUAGE - Fluent in both spoken and written Traditional and Simplified Chinese