

Donglai Wang

Fort Washington, PA - Email me on Indeed: [indeed.com/r/Donglai-Wang/70efa8b5f964a13e](https://www.indeed.com/r/Donglai-Wang/70efa8b5f964a13e)

Master's Mechanical Engineering Co-op from 6/15 - 12/15.

WORK EXPERIENCE

Six DOF Robot Arm

Beijing University of Chemical Technology - December 2013 to June 2014

- Researched and investigated mechanical problems in current robot arm design
- Created design plan and sought optimization methods to improve design
- Measured dimensions of a six degree of freedom (DOF) industrial robot arm produced by GSK
- Built 3D model and 2D drawing in SolidWorks
- Created FEA models in ADAMS to analyze the kinematic and dynamic performance of model
- Collaborated with test engineers to optimize 3D model and confer the dimensional modification
- Prepared design reports and presented work to our academic committee

Product Engineer

Ningbo GMF Technology Co. Ltd - July 2013 to September 2013

- Collected measuring critical dimensions of an existing electric automobile. The subsystems of the automobile I worked with specifically included: main frame, powertrain, braking system, suspension and steering systems
- Created engineering detail drawing in AutoCAD, as well as reviewing and modifying 2D drawings
- Built 3D models of electric automobile subsystems aforementioned above in Pro/ENGINEER
- Conducted and coordinated dimensional data and model testing
- Analyzed test data and reports and re-designed 3D model to accommodate specific requirements
- Tested modified 3D model to determine if the design satisfies requirement

Manufacturing Engineer

Xiangtan Electric Manufacturing Co. Ltd - July 2012 to September 2012

- Simulated manufacturing process and analyzed the feasibility of the design in MasterCAM
- Remodeled with design engineers to optimize and improve on current product design
- Utilized CNC milling machines and CNC Machining Center to produce prototypes
- Created standard manufacturing process and procedures for products
- Reviewed writing documents of manufacturing procedures with manufacturing department

EDUCATION

Master of Science in Mechanical Engineering

Drexel University - Philadelphia, PA

2014 to 2016

Bachelor of Science in Mechanical Engineering

Beijing University of Chemical Technology

2010 to 2014

SKILLS

Design Software: SolidWorks, AutoCAD, Pro/ENGINEER, MasterCAM, ADAMS

Programming: Maple, MATLAB, C++

Other: Microsoft office suite

Language: Mandarin