

Xining (Joey) Wang

6 Humberline Dr, Etobicoke, ON, M9W 6X8

519-702-7726

xwang985@gmail.com

KEY QUALIFICATIONS

- Solid background in mechanics and mechanical engineering
- Strong computer skills (Creo, SolidWorks, AutoCAD, Inventor, Epicor, KeyCreator, Office, Matlab, C++)
- Certified SolidWorks Professional (**CSWP**)
- Motivated self-starter with well-developed research and problem solving skills
- Highly detail-orientated fast learner with efficiency in fast-paced multitasking environment

EDUCATION

Master of Engineering Science in Mechanical and Material Engineering Western University	94.75/100 GPA	9/2014 – 10/2016
Bachelor of Science in Mechanical Engineering Xi'an Jiaotong University	86/100 GPA	9/2010 – 7/2014

INDUSTRY EXPERIENCE

Junior Mechanical Designer and Coordinator at Brampton Engineering	6/2017 - Present
<ul style="list-style-type: none">• Complete SCD die designs, create CAD models, system assemblies, detailed drawings and layouts• Developed spiral software with C++ to enable Creo to create die flow path geometry and contours in seconds• Set up and maintain Engineering operations via Epicor, release job to production, maintain, track and analyze Engineering data, and create reports on key department measurable• Work closely with purchasing and manufacturing to achieve desired outcome• Engineering system administrator for Creo (CAD) and Windchill (PDM/PLM)	

ACADEMIC EXPERIENCE

Research: Modelling and Simulation of the Flexoelectric Effect on a Cantilevered Piezoelectric Nanoplate	9/2014 – 9/2016
<ul style="list-style-type: none">• Developed the analytical model, and derived numerical solution by finite difference method• Investigated the size dependent effect of the flexoelectricity on the electromechanical behavior of the plate via Matlab (1700 lines), and the result can be applied to future nanomaterial application	
Teaching Assistant at Western University	9/2014 – 4/2016
<ul style="list-style-type: none">• Performed academic tutoring for courses: FEM in Mechanical Engineering, and Mechanics of Material• Assisted students in building models and solving problems with SolidWorks Simulation	
Project: Nonlinear Vibration and Acoustic Character of Structures	3/2014 – 8/2014
<ul style="list-style-type: none">• Explored the bulking temperature, inherent frequency and the response of the structure under different environment via ABAQUS• Demonstrated that the reduce of inherence frequency caused by high temperature would result in the change of the acceleration peak of the structure	
Project: Design and Force Analysis of a Drilling Platform	4/2013 – 6/2013
<ul style="list-style-type: none">• Designed a method to build the structure of the oil drilling platform faster via NASTRAN and produced a standard engineering drawing via AutoCAD• Investigated its deformation states under various kinds of strained conditions	
Patent: A Foldable Seismic Refuge Device	9/2012 – 1/2013
<ul style="list-style-type: none">• Designed the blueprint via SolidWorks and made a prototype using laser cutting machines	

PUBLICATION

- Wang, X., and Jiang, L.Y., *A study of the flexoelectric effect on the electroelastic fields of a cantilevered piezoelectric nanoplate*, International Journal of Applied Mechanics, (2017).