

June 11, 2014

Dear Modo Inc.,

I'm interested in the position at Mechanical Design Engineer that was advertised through LinkedIn. I graduated from the University of Southern California (USC) with M.S. degree in Mechanical Engineering and specifying in Design and Control area.

I have taken courses in vibration and worked in USC as the grader of Engineering Vibration; I have also taken courses in control and engineering design, and had experience in doing vibration analysis and CAD design. I have modeled and analyzed automobile's suspension systems and airplane's wings systems with MatLab, and have used SolidWorks and CATIA to do 3D modeling for power regenerative devices, flyers and other different components, and to do finite element analysis (FEA) in stress/ strain, vibration, buckling, and thermal stress/ strain problems. I believe these of my experiences can help myself to act a good employee.

Besides, I also had programming experiences in Visual Basic, C++, etc., I am still self-studying java and python. I believe I am an ambitious, proactive, and energetic person, and I am confident my energetically proactive ambition will keep myself competent.

The combination of my education at USC and experience in projects has been equipping me with skills necessary to be a successful employee. I also believe this position will further provide me with opportunity with which I can learn more and get more professional. I would like to discuss more of my qualifications with you in person. I look forward to hearing from you. Thank you for your time and consideration.

Sincerely,

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EDUCATION

University of Southern California (USC) , Los Angeles, CA	Dec 2013
Master of Science, Mechanical Engineering (Specified in Control and Design)	
Jian Guo Educational Institution for Chinese Medicine , Taichung, Taiwan	2008-2010
Student, Chinese Medicine	
National Chung Cheng University (CCU) , Chiayi, Taiwan	2007
Bachelor of Science, Mechanical Engineering	
Moscow Aerospace School's 2005 Program , Russia	Sep 2005

TECHNICAL SKILLS

SolidWorks, CATIA, MatLab, AutoCAD, Visual C++, Java, Visual Basic, Python, Verilog, and MS Office

WORK EXPERIENCE

Grader for Engineering Vibrations I

USC, Los Angeles, CA Jan 2013-May 2013

- Corrected the students' homework

Directing Officer (Military Service)

Level A Ordnance Repair Depot, Combined Logistics Command, DOD, Taiwan Jul 2007-Jun 2008

- Managed the repair technicians and maintained the armament (rifle, artillery, telescopes, etc.)

PROJECT EXPERIENCE

Regenerative Speed Reducer (RSR):

This project is to design a device to collect and transform vehicle's kinetic energy to electrical power

- Designed the prototypes, the configuration, and the materials for each component
- Analyzed the model by finite element analysis (FEA) with SolidWorks and CATIA

Computer-Aided Design of Mechanical Systems

This project is to analyze different models by FEA with SolidWorks and CATIA

- Analyzed the stress/strain and their distributions, the vibration natural frequencies and the corresponding vibration modes, the buckling boundary conditions, and thermal stress/strain for different models

SpaceBot

This project is to design a Geosynchronous (GEO) satellite life-extension vehicle

- Determined the required propellant masses, scales of SpaceBot and its subsystems
- Evaluated the feasibility and the cost for the whole project

Da Vinci Flyer

This project is to reconstruct Da Vinci's flyer

- Designed the model and determined the flyer's scales, flying modes, and the feasibility with SolidWorks

Modeling and Analyzing Vibrating Systems

This project is to analyze the vibrations of lump-mass systems and continuous systems

- Modeled and analyzed a suspension system model of automobiles and a model of airplane wings with mounted engines with MatLab

HONORS & AWARDS

First Place (Work Name: Running Chair)	Oct 2006
2006 Taiwan Innovative Mechanism Design Competition	
Nominated (Work Name: Swift-Cart)	Sep 2006
The 7 th International Creativity-in-Action Contest for University Student	
Nominated (Work Name: Reusable Chop-Pen-Sticks)	Sep 2006
The 7 th International Creativity-in-Action Contest for University Student	

EXTRACURRICULAR ACTIVITIES

Club for Initiative Design & Engineering	CCU, 2004-2007
Club of Taijiquan (a soft Chinese martial arts)	CCU, 2003-2007
Club of Chinese Martial Arts	CCU, 2003-2007
Club of Freedom Boxing	CCU, 2003-2004

ADDITIONAL INFORMATION

Languages:	Native in Mandarin/Taiwanese, Fluent in English
Interests & Hobbies:	Taijiquan (10-year formal training), Chinese martial arts, sports, Chinese calligraphy, reading, and traveling (visited England, France, Russia, Singapore, Vietnam, Japan, the US)