Dear Insight Inc.,

This is Chung-Hau Wang, graduated from the University of Southern California (USC) with M.S. in mechanical engineering and specifying in design and control. I'm now actively looking for opportunities and interested in your position at Development Engineer which is advertised through Linkedin.

I'm a design lover. Since my time at college, I kept thinking about how to make things better and designing things to make life better. My ideas had earned me honors of First Place and two Finalists at competitions sponsored by National Science Council of Taiwan. I also have experience in medical product design. During my time working as the volunteer in Aminggo Lu Tech, I designed a wheelchair of new type and have applied for Taiwan Patent for it, and by the way, I luckily got an experience in a design challenge from Apple Inc.

Furthermore, I'm familiar with 3D CAD tools (especially Solidworks and Catia). During my experiences in the projects and design challenges, I not only utilized these tools in modeling but also in finite element analysis (FEA) and motion/kinematic simulations. Besides, I also have programming experiences in Matlab, Java, Visual C++, Visual Basic, etc. From the point of skills, I believe I can be a skillful employee, and from the personality point, I am a passionate, energetic, and innovative person. So, overall speaking, I am confident of being a good fit to what you are looking for.

I'm looking forward to opportunities to join you and opportunities which will make me more professional. I will be very delighted to discuss more about my qualification with you. Please feel free to contact me. Looking forward to hearing from you soon. Thank you for your time and consideration.

Sincerely,

Chung-Hau Wang
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(213)359-9740

Chung-Hau Wang

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EDUCATION

University of Southern California (USC), Los Angeles, CA — Dec 2013

Master of Science, Mechanical Engineering (Specialized in Control and Design)

Chen Kuo Professional Education Institute, 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

Volunteer

Aminggo Lu Tech, Arcadia, CA — Feb 2014-Present

Grader for Engineering Vibrations I

USC, Los Angeles, CA — Jan 2013-May 2013

- Corrected the students' homework and guided the students in 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.)

HONORS & AWARDS

Taiwan Patent (Work Name: Manual Wheelchair for All-terrains) — Pending

This patent is to protect a wheelchair of new type

First Place (Work Name: Running Chair) — Oct 2006

2006 Taiwan Innovative Mechanism Design Competition (National Science Council of Taiwan sponsored)

This project was to modify wheelchairs' mechanism and function to make them more ergonomic

- Led the team to design the prototype and the mechanism, and determined the configuration

Finalist (Work Name: Swift-Cart) — Sep 2006

The 7th International Creativity-in-Action Contest for University Student (National Science Council of Taiwan sponsored)

This project was to add functions to shopping carts to make them more functional and user-friendly

- Led the team to design the prototype and the mechanism, and determined the configuration

Finalist (Work Name: Reusable Chop-Pen-Sticks) — Sep 2006

The 7th International Creativity-in-Action Contest for University Student (National Science Council of Taiwan sponsored)

This project was to combine chopsticks and pens to create more functions and quality of convenience

- Led the team to design the prototype and determined the coating paint material

PROJECT EXPERIENCE

Toothpaste Dispenser Design Challenge from Apple Inc.

This project is to design a toothpaste dispenser for assembly manufacturing line

- Conceived the concept and designed the prototype and configuration

Regenerative Speed Reducer (RSR)

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

- Led the team to design the prototypes and configurations, and to determine the components' materials
- 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

EXTRACURRICULAR ACTIVITIES

Taiwanese American Chamber of Commerce - Young Career Adult Group	2014-Present
Club for Initiative Design & Engineering	CCU, 2004-2007
Club of Taijiquan (a soft Chinese martial arts)	CCU, 2003-2007

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)