Ye YUAN

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SUMMARY

To obtain a full time position as Mechanical Engineer. Available from May 2016

Strong skills in 3-D modeling, FEA, GD&T, actuator/sensor design, control system design, electro-mechanical integration. Proficient in metal, carbon fibre and plastic product design, material selection, DfM, DfA and hands-on model-shop experience. Experience with statistical tolerance analysis and solid background in mathematical and physical principles

EDUCATION

Master of Engineering, Mechanical Engineering (Product Design) 3.8/4.0 University of California, Berkeley, CA Expected, May 2016

Bachelor of Engineering, Mechanical Engineering

3.85/4.0 Peking University, Beijing, China

July 2015

3.70/4.0 Peking University, Beijing, China

July 2015

EXPERIENCE

Design Specialist, Design of Mini-actuator in Cell Phone, ITRI & UC Berkeley, CA

Sep 2015 - Present

- Designing a new fast-response, long-lasting and cost-effective 5-axis OIS (Optical Image Stabilization) system in CCM (compact camera module) that reduce 15% in volume of current design in commercial smart cell phones
- Managing the project to reach higher manufacturability and reliability, including detail design in FEA, CAD in Solidworks and magnet performance evaluation in VCM (voice coil motor); and selection of commercial components as well as procurement
- Building prototypes including 13M CMOS image sensor, auto-focus module and OIS module

Mechanical Engineer, Carbon Fibre Suspension Design, Blue Sky Solar, Toronto, Canada

Sep 2014 - Jan 2015

- Designed, tested and manufactured a carbon fibre suspension system for a solar racing car that achieved 26% overall weight saving accompanied with 20% increase in safety factor
- Created a 3-D model of the suspension with Solidworks and ProE, re-designed the joints. Applied FEA test with ANSYS ACP
 and physical test with Instron tensile test machine. Implemented the design in ANSI Y14.5 GD&T standards
- Selected and ordered carbon fibre, gained hand-on experience with carbon fibre and steel manufacturing

Product Designer, Design of A Self-balancing and Marching Lego Robot, Peking University, China

Sep 2014 - Oct 2014

- Designed and built a Lego robot that can self-balance and march along a given track autonomously
- Integrated modules including color sensor, step/servo motors, wireless network card, battery, accelerometer and gyroscope
- Designed the control system utilizing Matlab Simulink within 1 week. Finished the certain track in 14 seconds, 1st in class

Product Designer, 3DMC Designathon, Berkeley, CA

Nov 2015

- Designed an assistive mechanical device for people with disability to play the guitar within 24 hours
- Created 3D model in Solidworks. Optimized the design to meet the criteria for 3D printing, assembled and tested the product
- Went through several iteration processes to deliver the final design. Worked under pressure to meet the 24-hour deadline

CFD Engineer, *Institut de M'ecanique des Fluides*, Toulouse, France

Jan 2015 - May 2015

- Implemented numerical simulation and explained the oscillation phenomenon in certain nuclear waste disposal process
- Built a model of drops coalescence containing two reactants. Gained experience in CFD and model construction
- Developed Matlab codes to simulate the balance equation. Tested 500+ parameter combinations to find the critical condition

SKILLS AND PERSONAL INFO.

Software: CATIA V5, Solidworks, ProE, Matlab/Simulink, AutoCAD, ANSYS, Labview, C, Fortran, R, Minitab

Language: Native speaker of Mandarin, fluent in English, basic French **Other experience**: Teaching assistant, P.E. Instructor of table tennis