Lexian Guo

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Objective

Summer Internship

Work Experience

01/2010 - 06/2010 PolayOnyx, San Jose, CA USA
Internship

- Set up lab equipments and prepared for laser testing
- Applied tools to properly prepared test samples
- Used computerized machines and performed fiber laser testing on a variety of materials such as steel, fiber and organic objects
- Wrote and constructed lab reports. Recorded and analyzed lab data. organized and regulated customer orders.

08/2014 - Present UC Berkeley Solar Vehicle team, Berkeley, CA USA
Shell designer and engineer

- Designing and CADing solar vehicle shell
- building composite/metal structures for chassis.
- used Instron tensile test machine to analyze material strength.
- practiced CFD to optimize the shell's aerodynamic efficiency.
- practiced FEA to optimize chassis/shell structural design

05/2015 - 06/2015 UC Berkeley Vehicle control laboratory, Berkeley, CA USA
Undergraduate researcher
I worked on a data visualization project for which my duty was to present vehicle's data in graphics with Matlab

Education

2012 - 2015 UC Berkeley, Berkeley, CA USA
Bachelor degree GPA: 3.7
Related coursework:

- Dynamics Engineering Mechanics Vehicle dynamics and control
- Mechanics of material Fluid mechanics Thermodynamics
- Advanced engineering design graphics. Measurements for mechatronics
- Introduction to MEMS

Skills

- Software skills with Matlab and Simulink.
- Proficienct modeling skills in ProE and CATIA V5.
- FEA/CAE skills(Hyperworks)
- Microsoft office.
- Labview (NI certified Labview associate programmer)
- Animation skills with Autodesk 3DS Max Design.
- Trained by Berkeley Machine shop. Experience with cutting, drilling and finishing tools for wood and metal materials.
- General EE Lab equipments
- Theoretical knowledge of MEMS
- Speak Mandarin and English
- Experience with embedded, real-time microprocessor-based systems.
- Experience with numerous sensors and different types of motors.

Capstone Project

http://102bpawx.wix.com/pawx