

Andrew Sheng

785 Weyburn Terrace Apt. #204
Los Angeles, CA 90024
(408) 621-4941, asheng@ucla.edu

EDUCATION:

University of California, Los Angeles: Mechanical Engineering Ph.D. Student

Major Field: Manufacturing & Design

Minor Fields: Solid Mechanics, Materials Science

Current GPA: 3.891

Coursework: Non-linear Elasticity, Linear Elasticity, Elastodynamics

University of California, Los Angeles: M.S. Mechanical Engineering

Received June 2012

- GPA: 3.925

- Relevant coursework: Radiation Heat Transfer, Damage & Failure of Materials, Computational Geometry, Mechanics and Trajectory planning for Industrial Robots, Mechanics of Intelligent Materials Systems, Linear Elasticity, Non-linear Elasticity

University of California, Irvine: B.S. Mechanical Engineering, Materials Science and Engineering minor

Received June 2011

- GPA: 3.402

- Relevant coursework: Dynamics, Mechanics of Structures, Vibrations, Control Systems, Applied Engineering, Thermodynamics, Vis./Compress. Flows, Theory of Machines, Principles of Materials Science, Design Failure Investigation

EXPERIENCE:

UCI 2010-2011 Formula SAE Race Team, Irvine, CA

September 2010 – July 2011

Lead Chassis/Packaging Engineer. 25 hrs/week. Led a team of 10-12 students in the redesign of the 2009-2010 FSAE racecar chassis to accommodate a new CNG-Electric hybrid drive-train, and the design of a new aerodynamic body to compete with in 2011 UCI Energy Invitational. Managed a team of 10-12 students in the design, fabrication and assembly of a new chassis/suspension system for 2011-2012 FSAE racecar.

Advanced Ion Beam Technology, Inc., San Jose, CA

June 2008 – August 2008

Summer Mechanical Engineering Intern. 40 hrs/week. Used Pro/ENGINEER to make drawings, model components and revise existing drawings. Used Arena Solutions extensively for Bill of Materials management.

TECHNICAL SKILLS:

Applicable Skills:

- Engineering design
- Stress analysis
- Failure analysis
- Materials properties/processing
- Thermodynamics
- Fluid mechanics
- Manufacturing/fabrication techniques (manual lathe & mill; TIG/MIG welding)

Computer & Programming Skills:

- Solid modeling/drafting software (Solidworks, Pro/ENGINEER, AutoCAD)
- MATLAB, Mathematica, LabVIEW, C++
- FEA software (COMSOL)
- Microsoft Office, LaTeX