

Ray Young

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Education

Franklin W. Olin College of Engineering

Bachelor of Science degree in Mechanical Engineering; Entrepreneurship Concentration

- Recipient of four year full-tuition merit scholarship

2004 - 2008
Needham, MA

Stockholm Royal Institute of Technology

Study abroad semester in Entrepreneurship, Swedish Language and Culture

Fall 2006
Sweden

Massachusetts Institute of Technology

Enrolled as freshman -took courses in Physics, Calculus, Chemistry and Women's Studies

- Traveled to Alaska as part of semester-length program evaluating oil drilling in A.N.W.R.

2003 - 2004
Cambridge, MA

Experience

Creative Technology Industries

SolidWorks Designer (contract)

Executed product design packages for international manufacture and client review

- Utilized SolidWorks to create representational models and assembly drawing packages

12/2009
Foxboro, MA

Proteus Design

Product Development Intern (unpaid)

Developed consumer product solutions to meet client needs

- Constructed product concepts using Pro/Engineer and rapid prototyping equipment

8/2009 - 12/2009
Cambridge, MA

LFI, Inc.

Continuous Improvement Intern

Independently devised quantitative method for quality inspection using acoustic signal analysis

- Designed and fabricated test setup; gathered and analyzed data using MATLAB

7/2007 - 8/2008
Smithfield, RI

Boston Scientific (Sponsor: Senior Year Capstone Project)

Project Manager/Mechanical Designer

Co-managed five person team with \$15,000 budget to deliver well-developed design concept

- Engineered and tested alpha and beta prototypes of selected concepts

9/2007 - 5/2008
Natick, MA

Sheaumann Laser, Inc.

Mechanical Designer

Realized design for high-powered fiber-coupled laser chip module

- Generated CAD models and mechanical drawings of module housing using SolidWorks

June 2007
Marlborough, MA

NASA (Sponsor: Summer Research Program)

Finite Element Analyst

Analyzed effect of supercooling from 300K to $\approx 50\mu\text{K}$ on one pixel of x-ray sensor array

- Produced 3D model of microcalorimeter array and performed FEA thermal stress calculations

Summer 2006
Greenbelt, MD

Otis Elevator Company

Junior Project Engineer

Provided engineering support for lead project engineers

- Conducted reliability testing of elevator components and assisted with mechanical design

Summer 2004
Farmington, CT

Skills

- Massachusetts Certified Professional Engineer in Training (EIT)

Engineering
Machine Shop
Software

Mechanical Design • Design for Manufacture • Prototype Development • Optimization • Data Analysis
FDM and SLA 3D Printing • Injection Molding • Laser Cutting • Lathe • Mill • Sheet Metal Bender
SolidWorks • Pro/Engineer • MATLAB • COMSOL Multiphysics • Visual Nastran 4D • Adobe Photoshop

Interests

Spent six months (9/08 - 3/09) working on organic farms in France; Resident Advisor (6/05 - 8/06)