Ankur Das

Personal Info

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Education

2012 - Current
Needham, MA

B.S. in Mechanical Engineering, Olin College of Engineering, Class of 2016
Selected Coursework: Design Nature, User Oriented Collaborative Design, Robotics, Dynamics, Mechanics of Solids and Structures, Principles of Engineering, Materials Science, Transport Phenomena
GPA: 3.82

2008 - 2012
San Jose, CA

High School Diploma, Bellarmine College Preparatory
GPA: 3.92 Unweighted, 4.57 Weighted

Experience

Fall 2012 - Current
Needham, MA

Research of Electric Vehicles at Olin
·Current mechanical subteam technical lead on Formula SAE Electric racecar
·Lead on all mechanical design decisions, designed dual-motor single reduction gearbox, mentored subteam members, managed PDM catalog
·Led suspension design on off/on-road capable three-wheeled electric car
·Converted gas-powered go-kart to electric powertrain.

Summer 2014
Berkeley, CA

Manufacturing Engineering Intern at All Power Labs
·Created documentation through CAD, technical drawings, and PLM
·Designed assorted parts for small-scale biomass power generators
·Communicated with suppliers and fabricators for RFQ creation, DFM, DFX

Fall 2012 - Spring 2014
Needham, MA

SAE Mini Baja
·Created and optimized suspension geometry on off-road vehicle team.
·Designed knuckles, integrated suspension with chassis and steering.

Fall 2008 - Spring 2012
San Jose, CA

FRC, VEX Robotics
·2011 FRC World Championship Winners. VEX robotics team captain.

Projects

Current
Biomedical CAD and 3d Printing
Research in converting biomedical data to 3d models, using 3d printing to clearly visualize complicated structures (i.e. fetus skeletons) for medical students.

Spring 2014
Design for Volunteer Doctors
Studied volunteer doctor user group through visits and interviews. Used user needs and values to identify and design product idea, model, and interface specific to user group.

Fall 2013
Laminar Flow Fountain
Led mechanical design of a small tabletop laminar flow fountain with audio-visual response. Created recycling waterproof system with three powered laminar flow nozzles.

Skills

Software: Solidworks, Matlab, LabView, Adobe Suite, Python, DraftSight, Arduino, Arena PLM
Fabrication: Mill, Lathe, Sheet Metal, MIG & TIG Welding, CNC Laser & Plasma Cutter, 3d Printers