Ankur Das

Personal Info

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Education

2012 - Current — B.S. in Mechanical Engineering, Olin College of Engineering, Class of 2016
Needham, MA
Selected Coursework: Design Nature, User Oriented Collaborative Design, Robotics, Dynamics, Mechanics of Solids and Structures, Principles of Engineering, Materials Science, Transport Phenomena* (Current)
GPA: 3.82

2008 - 2012 — High School Diploma, Bellarmine College Preparatory
San Jose, CA
GPA: 3.92 Unweighted, 4.57 Weighted

Experience

Fall 2012 - Current — Research of Electric Vehicles at Olin
Needham, MA
·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 — Manufacturing Engineering Intern at All Power Labs
Berkeley, CA
·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 — SAE Mini Baja
Needham, MA
·Created and optimized suspension geometry on off-road vehicle team.
·Designed knuckles, integrated suspension with chassis and steering.

Fall 2008 - Spring 2012 — FRC, VEX Robotics
San Jose, CA
·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.

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.

Fall 2012 - Spring 2014 — Misc. School, Personal Projects
Autonomous Tugboat Navigation, Welding and Heat Treatment Analysis, Hand Gesture Laptop Control, Automated Dynamics Equation Generator, 3d Printing, Modular Origami

Skills

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