Samir M. Mehta

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Education

Thayer School of Engineering at Dartmouth College — Hanover, NH
Bachelor of Engineering Concentration: *Mechanical Engineering* GPA: 3.45/4.0 — June 2012
Relevant Coursework: Solid Mechanics, Systems, Statistical Methods, Machine Engineering, Electronics: Linear and Digital, Introduction to Operations Research, Engineering Design Methodology, Computer Aided Design, Thermodynamics, Structural Analysis, Science of Materials

Dartmouth College — Hanover, NH
Bachelor of Arts Major: *Engineering Sciences modified with Economics* GPA: 3.10/4.0 — August 2011
Minor: *Chinese*

Shanghai Jiao Tong University — Shanghai, China
- Deepened my prior language skills for Mandarin Chinese by immersing myself in the native culture for two terms — September 2010 - June 2011

Academic Project Experience

Twist Car Competition, *Computer Aided Design* — Spring 2012
- Designed and built a vehicle with coupled steering and propulsion to compete in a race
- Utilized SolidWorks to model weldments, conduct simulations on key components, and create technical drawings for machining
- Awarded most innovative design for the arm powered linkage propulsion system used while placing second in the competition

Senior Design Project, *Engineering Design Methodology* — Fall 2011 - Winter 2012
- Contracted by a Dutch firm to investigate increased efficiency propulsion systems for maritime vessels
- Conducted extensive research on the current state of the art, performed substantial market research, and determined the economic viability of a novel propulsion system
- Analyzed the hydrodynamic efficiency of the device using FLUENT and constructed a working prototype to validate results
- Programmed an Arduino microcontroller to interface with shaft encoders and stepper motors to achieve the desired motion of the prototype
- Worked effectively in a team to meet strict project deadlines while updating the client with the ongoing progress of the project
- Presented our progress and final results to a review board of Professional Engineers

Remote Controlled Vehicle, *Machine Engineering* — Fall 2009
- Designed, machined, and assembled a gear train driven vehicle to relocate stacks of hockey pucks from one side of a large barrier to the other
- Used Pro/Engineer to model the design and followed proper drafting practices to create technical drawings of each component

Work Experience

Magna Electronics, *Mechanical Engineering Intern* — Zhangjiagang, China
- Used Catia to model various components of driver assistance and safety systems
- Assisted in the construction and testing of prototypes — June 2010 - August 2010

Zytech Solar, *Assistant to Head Engineer* — Qingdao, China
- Modeled off-grid solar panel systems, such as solar streetlights, using Pro/Engineer — May 2009 - August 2009

Hand Surgery Associates, *Doctor's Assistant* — Birmingham, MI
- Gained valuable communication skills by interacting with and handling a diverse group of patients — June 2007 – August 2007

Leadership

Kappa Kappa Kappa Fraternity, *Athletic Coordinator* — March 2008 - June 2010
- Organized intramural sports games and athletic events

Drug and Alcohol Peer Advisor (DAPA) — June 2008 - June 2010
- Acted as a health opinion leader, resource to my peers, and ambassador to the Office of Alcohol & Other Drug Services (AODS)

Dartmouth Varsity Squash Team, *Community Service Representative* — September 2006 – June 2008

Skills and Hobbies

CAD: SolidWorks (CSWP), Pro/Engineer, Catia
Programming: Matlab, Arduino, R
Software: SpaceGass, Excel, PowerPoint, Word, iMovie, Ableton
NH State Board of Professional Engineers: Passed FE exam
Language: Intermediate/Advanced ability in Mandarin Chinese
Machine Shop: Lathe, Mill, Drill Press
Hobbies: Squash, Table Tennis, Badminton, Cello, Traveling the world (visited 15 countries in 5 continents)