

Kevin Rustagi

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EDUCATION

Massachusetts Institute of Technology, GPA: 4.72/5.0 **Intended, June 2011**
Bachelor of Science Candidate in Mechanical Engineering, Minor in Chinese Language and Culture.

EXPERIENCE

Apple Inc., iPhone Manufacturing, Mechanical Enclosures Group, Intern **Summer 2010**
Introduced new processes for component in iPhone exterior. Aligned manufacturing process with team goals for product design, manufacturing, and industrial design for testing future iPhone component. Assessed laser hole tracing, electrical spark machining, micro-drilling. Traveled to Shenzhen, China to run tests with Foxconn Manufacturing Group. Built my component into functional units for testing.

LaserKard LLC, Startup, <http://laserkard.com>, Co-Founder, CEO **Jan 2009 - Present**
Transformed laser-engraved business card from concept to available product, created custom packaging. Recruited partner and 3rd team member, acquired \$4,000 in seed-funding. Version 1.0 sales exceeded \$800. Established supply chain involving local suppliers, product shown at conferences in NYC and Seoul. Investigated new plastics with factories in China (part in Chinese.) Raised funds for purchasing our own small scale laser. Drove key changeover from version 1.0 plastic to version 2.0 anodized aluminum cards. In prototype stages for medical identification wallet cards for allergy and disease.

RST Overseas Engineering Management, Startup, Design Intern (Pro Bono) **Summer 2009**
Shenzhen, China. Designed exterior for *K-Turn*, a hand-crank powered text-messaging device for the developing world. Defined use case and technical specification, which led to choice of lithium battery size and generator. Created internal market research document: *Cellular signal and use in absence of accessible power in the developing world*. Worked directly with founder/principal.

General Electric, Aero Energy, Alternative Fuels Team, Intern **Summer 2008**
Improved method of screening 6,000 part bill of materials for jet engine power generation components to remove duplicates and automated the scanning process using programming with Excel/Visual Basic. Prevented manual duplicate checking, eliminating redundant parts, annual savings of \$25,000+.

MIT Media Laboratory, Tangible Media, Undergraduate Researcher **Jan 2008 – Jan 2009**
Designed Human Computer Interaction concept – a multiple sense-based cube system, combining light, touch and sound interaction. Refined dyes and tested Speak-Cup, a device for capturing sound in a soft polymer disc, a touch interface. Applied rapid prototyping techniques with resins, water-jet abrasive cutter (for metals), laser cutter (for plastics).

Arcade Modernization: ARK, Texas Children's Hospital, Team Leader **Jun 2006 – Jan 2007**
Non-profit product design project. Houston, TX. Planned and executed the total redesign of 4-player, multi-game arcade console, funded through summer earnings, in-kind donations. Donated to Texas Children's Hospital Teen Room. Designed for wheelchair & IV pole accessibility by shortening machine and constructing wider control panel. Currently in use, providing as-needed technical support.

INVENTIONS & DESIGNS

2010: Modular Backboard, Pursuing Patent – Emergency Mountain Rescue, 1st in Capstone Course.

Telephone Application for Relaxation – A voice recognition-based application allowing users to relax with jokes, guided meditation, and by discursing with the computer about their stress.

Light-up T-Shirt – This t-shirt blinked out Morse code: MIT 150, commemorating MIT's 150th anniversary

2009: Track Cleat Overshoe – 95% Cardboard, eases walking by conforming to awkward cleat contour.

K-Turn – Exterior, engineering for developing world hand-crank texting device, see Experience: RST.

Can Crushing Robot – Part of MIT's storied robot competition class, my remote-controlled robot was able to pick up and crush a soda can with 80 lbs. of force through a strategic string-lever system.

M&M Dispensing Yoyo – A class project, dispenses M&Ms through a sliding cover that I designed.

Laser Kards – Laser-etched plastic/metal business and medical ID cards, see Experience: LaserKard.
2008: Floating Clock – Plastic disc ‘floating’ on steel pins above artistic aluminum clock face.
Cool Pool – A group project for toy design class, this was a modified set of pool balls; contents within included magnets, lights, off-center weight to teach science/engineering to middle/high school students.
2007: Arcade Game ARK (donated to hospital) – Total redesign, see Experience: Arcade Modernization
Arcade Game Noah (version 2.0) – Appearance and internal overhaul, aesthetic design improvement.

LEADERSHIP & ACTIVITIES

MIT Bernard M. Gordon Engineering Leadership Program – Member Fall 2009-Present – In this highly selective 2-year co-curricular leadership education and training program, I engaged in leadership scenarios as a Junior and am instructing as a Senior as well as leading a team that I recruited to showcase program students online. In a controlled environment, I practice guiding and focusing teams.

The MIT Live Music Connection – Founder, Co President Fall 2009-Present – My band and I formed this music cooperative as a venue for musicians on campus. We expanded into a recognized club, raising over \$15,000 and putting on 18 shows for 1500+ patrons for 20 student bands. I helped student bands record their music and trained other students to fill club roles. I gained bands’ approval for and released a CD of MIT bands, setting a precedent by making the CD free online. I started and run a media-based web blog showcasing our concert series. This semester, we are piloting free guitar lessons and jam sessions.

Camp Kesem MIT – Drama Instructor 2008, Older Boys’ Counselor 2009, Teen Program Co-Coordinator 2010 – Camp Kesem is a free five-day camp for the children of cancer patients. I helped establish our new teen program creating a week of leadership-focused and empowerment-based programming, which served 7 teens in a camp of 60. I established a key partnership with the Live Music Connection for fundraising at Battle of the Bands and ensured the continuation of this fundraising partnership.

Ski Team (Varsity-Level) – MacConnell Division Racer, Fall 2008-Present– I raced junior year after being injured (frostbite) sophomore year. I moved up 7 places in the Giant Slalom and also competed in Slalom races. I will return this year as a racer in both Slalom and Giant Slalom.

Rock Band: The Guitar Knives guitarknives.com – Drummer, Occasional Vocals, Fall 2008-Present – I have co-written 7 original songs and performed 6 shows at MIT. I record and master our songs.

Rock Band: The Future therockepic.com – Summers 2008, 2009, 2010 – A band with friends in Houston, TX. I have written music with them from China and California remotely. The 1st 2 summers of college we wrote 5 original songs and in summer 2010 we recorded our 10+ minute rock epic.

MIT Stand-Up Comedy Club (Class) – Comedian, Fall 2010 – I am writing my first comedy routine now.

MIT Improv Comedy Troupe: Roadkill Buffet – Improvisational Performer, Fall 2007- Spring 2009 – I performed 12 shows for crowds of 150+ and in 2 charity variety shows raising funds for multiple sclerosis.

2011 Class Council – Secretary, Fall 2008- Fall 2009 – I served on this undergraduate panel, helping to allocate \$25,000 in student life funds to events designed to bring students together in a social setting.

AWARDS & HONORS

Rhodes Scholarship Finalist, 2010 – One of 14 selected from [TX,LA,OK] Region.

Marshall Scholarship Finalist, 2010 – One of 20 selected from Southwest Region.

Awarded Balanced Man Scholarship, MIT, 2010 – One of 2 selected out of 100+ applicants, \$2,200.

Pi Tau Sigma, MIT, 2010 – Member, International Mechanical Engineering Honors Society.

Park Award for Outstanding Performance in Manufacturing, MIT, 2010 – Given to 2 undergraduate students each year for outstanding performance in and out of the manufacturing classroom.

Student Leader Award MIT, 2010 – Given to one outstanding new student group each year by the MIT Student Activities Office, the Live Music Connection won Most Remarkable New Student Group.

Invited to Attend Alibaba.com Entrepreneur Abroad Program, 2010 – 1-Week 50 student summit on global commerce and entrepreneurship in Hangzhou, China hosted by China’s largest internet company.

Recipient of MIT-China Science and Technology Initiative Funding, 2009 – For international student work: received \$2,500 stipend and travel accommodations to work and live in China for the summer.

Luis deFlorez Award for Innovation MIT, 2009 –Awarded 3rd prize for my contributions to a group project, ‘Cool Pool’, See Inventions: 2008, by the MIT Mechanical Engineering Department.

IBM Thomas J. Watson Memorial Scholar, 2007 (annual) – Since 1958, IBM has awarded children its employees this scholarship based on academic merit for undergraduate education, \$25,200.

Toyota National Community Scholar, 2007 (annual) – One of 100 winners nationwide, recognized for outstanding community service (arcade hospital project), featured in USA Today, \$10,000 scholarship.