

Sharon Marzouk

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Objective To inspire and motivate people to better themselves and the world around them through innovation, creativity and technology.

Education **Purdue University | BS Mechanical Engineering 2007**

Continued Learning:

Startups: From Idea to IPO, Entrepreneurial Thought Leaders Seminar, Introduction to Open Innovation, Innovation and Creativity, Myers-Briggs Introduction, Problem Solving

Industry *Robotics Education Specialist, Willow Garage*, | January 2012 – Present | Menlo Park, CA

- Designing intuitive user interface for users to engage and excel at programming the advanced research PR2 robot
- Managing software product that participants engage with and working with software developers to advance application
- Designing and holding weekend exhibitions at The Tech Museum in San Jose
- Coordinating planning of resources between Willow Garage and The Tech Museum
- Training and engaging with exhibit participants and volunteers

Executive Director, Wizbots llc | March 2010 – August 2011 | Belmont, CA

- Led operations and program at Wizbots for kids K-8th
- Created partnerships with local non profit organizations and schools
- Exhibited at Tech Museum, Stanford Robot Block Party, Featured in newspaper
- Designed and opened robotics design learning lab in Belmont
- Built two websites and enrollment system for summer camp programs
- Organized, created and successfully ran 5 different summer camp programs at 4 sites over a duration of 9 weeks
- Collaborated with interdisciplinary team with Phd, MBA, IT, teachers, students
- Managed, recruited and trained teams of teachers, and mentored HS student
- Teaching kids engineering, and design thinking using robotics
- Invented game that generates creative projects and promotes lateral thinking
- Developed business strategy, offerings, and direction of company
- Marketed program through social media, print materials, parent networks and Filmed and Edited marketing videos
- Created just-in-time learning curriculum for students and plans for progression through program through insights gained from the classroom, kids, parents and teaching team
- Robotics teacher for 7-9th graders at San Mateo College for Kids camp

Entrepreneur, Juci Inc | August 2008 – Present | Palo Alto, CA

- Submitted pitch for Juci Inc. to investors and judges and recognized as Top 50 in The Perfect Pitch 2009 out of over 1000 entries.
- Researched patenting process and completed patent search
- Incorporated, designed logo and created brand
- Attended various seminars, workshops, and lectures
- Created interactive iphone user interface prototype
- Presented to company and VC for funding for pico projector start up

Youth Group Advisor, BBYO & Temple Emanu-El | August 2007 – June 2010

- Advised youth in grades 4-12 and promoted positive leadership experience
- Coordinated events for students

*Photographer and Videographer, **Juci Media*** | August 2008 – Present | Palo Alto, CA

- Capturing spontaneous moments and emotion in digital media, photo post processing, vide editing, art and design
- Communicating with repeat customers and Leading media teams

*Mechanical Engineer, **Air Products*** | July 2007 – August 2008 | Allentown, PA

- Calculated ASME codes, Compress modeling and followed company specifications and standards
- Reviewed drawings for pressure vessels and heat exchangers
- Project Engineer for the refurbishment of industrial cryogenic freezers
- Designed and implemented Mixer Tables to create a more integrated collaborative environment at work
- Won Technology Leadership and Top Ten Diversity Award for company-wide 'Mixer Tables' project implemented at headquarters and globally

*Engineering Co-Op, **Toyota Motor Manufacturing*** | August 2005 –2006 | Princeton, IN

- Designed ergonomic new hand tool for team members after gaining insight by engaging with team members and experiencing hand stoning process, used CAD to then CNC mold for new product
- Transformed handwritten manual process into a modern electronic system with barcode reader, and automated calculations that increased efficiency of stamping department, reduced costly mistakes, and improved record keeping
- Evaluated process, interviewed and observed team members, developed solution, implemented system, and trained team members

*Engineering Intern, **Elkhart County Highways*** | May – August 2005 | Goshen, IN

- Led group by developing organized method, to perform Elkhart County's 300 road counts in 7 weeks, and executed project successfully
- Redesigned website and assisted engineers in bridge concrete pour

Selected
Projects

College- Technical

Senior Design Project- Project leader for team of 7 people to research, design, and manufacture a fun recreational vehicle. Team created a unique 3 wheeled lean steering vehicle called the "So-lo CruzR" supported by a car differential.

CAD and Prototyping- Team member of three person group to design "Purdue Pete" coin bank with a four bar mechanism. Modeled with Pro/Engineer, and prototyped with SLA.

Sophomore Design- Team member of four person group to design a piece of exercise equipment. Analyzed market and ran stress calculations to create a running shoe to store and release energy during running, thereby decreasing amount of impact on legs.

Toyota Co-Op- Technical

Ergonomic Project- Improved ergonomic condition for workers on press. Reduced stresses on hand with more ergonomic tool design.

Process Mapping- Changed process from a painstakingly handwritten and manual process to an electronic database that takes less time to input data, organizes information, and error proofs process. Designed and implemented database at facility.

Air Products Company-wide Project

The Mixer Table- After noticing a lack of interaction between employees, suggested 'Mixer Tables' at work to create a friendlier, more integrated atmosphere. Led team to hold a company wide event in which employees collaborated to paint the tables. Tables are currently implemented at the Air Products headquarters and globally. Received

Technology Leadership Award from CTO, and project won Diversity Award.

Skills
and
Interests

CATIA, Pro/ENGINEER, Inventor, CAD, Photoshop, Lightroom, Illustrator, Sony Vegas Pro, Compress, Matlab, Front Page, Excel, Access, PowerPoint and Word

Human centered product design, need finding, process mapping, design thinking, creativity, innovation, cross-pollinating between disciplines, photography, videography, painting, airbrushing, ceramics, and machining.

Activities
Awards and
Distinctions

Big Idea Fest | December 2011 –Present | Palo Alto, CA

Active participant in forward thinking education conference. Member of team iGPS that won funding of \$10,000 from the Bill and Melinda Gates foundation to go forward with idea. Presented concept at conference and attended follow up Action Collab meeting.

Robotics Teacher at Private Household | September 2011 – April 2012 | Menlo Park, CA
Held weekly classes with 8-10 kids to teach them robotics and prepare them for Robogames in San Mateo

Stanford's d.school K-12 Program | September 2009 –Present | Palo Alto, CA

Volunteer in Stanford's design school and helping to bring design thinking into the lives of kids. Planned and executed a design challenge for 6-7th graders in Girls Inc.

Silly and Sweet Award, Stanford Innovation Tournament | November 2009 | Palo Alto, CA
Winning entry in Global Tournament. Won meeting with entrepreneur Guy Kawasaki.

AlwaysOn Venture Summit Silicon Valley | December 2008 | Half Moon Bay, CA

Active participate in forums, lectures, networking events at summit.

Creativity Award, Stanford University Entrepreneur Week | November 2008| Palo Alto, CA

Entered competition at Stanford to create the most value out of a chosen everyday object. Won creativity award out of over 100 other entries.

Technology Leadership Award, Air Products | July 2008 | Allentown, PA

Given to me by the CTO for taking ownership, accomplishing things that need to be done, and breaking barriers where necessary.

Top Ten Diversity Award, Air Products | June 2008 | Allentown, PA

Nominated by employees for creating and implementing the 'Mixer Tables' at the company.

Engineering Explorers Volunteer, Boy Scouts of America | September 2007 – 2008 |

Allentown, PA

Instruct and encourage teenage students with different hands on engineering projects to learn about engineering.