

SANDRA CHEN

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Education:

Melrose High School

September 2004-June 2008 Melrose, MA

SAT Math: 800/800 Verbal: 740/800 Writing: 760/800 ACT: 36/36

Massachusetts Institute of Technology

June 2012 Cambridge, MA

Candidate for Bachelor of Science in Mechanical Engineering

GPA: 4.7/5.0

Relevant Coursework: Design and Manufacturing, Thermal Fluids Engineering, Differential Equations, Engineering Management, Corporate Financial Accounting, Microeconomics, Macroeconomics, Finance Theory I, Probability & Statistics

Experiences:

Apple, Inc.

June 2011-September 2011 Cupertino, CA

iPhone/iPod Enclosures Operations

- Audited production process for iPhone and iPod to save cycle time by 10%, cost by 20%, deliver 30% more output and forecasting for upcoming programs.
- Developed and implemented cutting edge automation tools and designed measurement methods to maintain process control
- Managed five manufacturing plants in China, engaged with twenty domestic and international suppliers, product design, industrial design and operations team members for mass production.

BNP Paribas

January 2011 New York, New York

Fixed Income Extern

- Structured and analyzed trade and product ideas, and creation of marketing materials and presentations, work closely with senior sales representatives on covering hedge funds, asset managers, and pension funds
- Performed quantitative and qualitative analysis of different trading strategies, assisting senior traders with position tracking responsibilities, and creation and maintenance of trading tools
- Developed investment ideas, modeled transactions, selling and cross-selling BNP Paribas' products, managing portfolios and communicating with clients

IMS Gear

June 2010—August 2010 Taicang/Shanghai, PRC

Design and Manufacturing Intern

- Assisted senior management with the audit process of the company and with the product production approval process and increased efficiency by 5%
- Worked directly with the customer to design product fabrication processes, cost and benefit analysis, packaging and delivery schemes, and S.W.O.T analysis.
- Conducted testing with quality management department to ensure products are created according to protocol by calculating cpk values, evaluated the cause and effect of faulty products, and improved current products in the market.

CombinatoRx, Inc

June—August 2009 Cambridge, MA

Process Development Intern

- Engineered a cell migration assay for wound healing using a REIC-6 model
- Conducted high throughput screening of drug combination orders on human keratinocyte cell line HaCat, and 8 colorectal cell lines to discover drug synergies for potential novel drugs
- Programmed laboratory robots to maximize the efficiency of the above and for large scale production.

Skills:

Mechanical and electrical: basic electronics, cnc machining, structural and materials analysis, welding

Computer: MatLab, SolidWorks, Excel, Adobe Photoshop, Dreamweaver, Flash CS3, Mac/Windows/Linux OS

Language: Fluent in Cantonese, Proficient in Spanish, Beginner Mandarin

Leadership and Activities:

MIT Alumni Association Student Ambassador Program

September 2008—Present

President

- Showcase the opportunities and news at MIT through a students' perspective to 5,000+ alumni, parents, prospective students, and honored guests through tours and welcome receptions. Active volunteer for Tech Reunions, Alumni Leadership Conference, Campaign for Students, and the MIT150 Kickoff

Society of Women Engineers

September 2008—Present

Career Development Chair, Vice President of Membership & Information, Region F Collegiate Communications Editor, Outreach Mentor

- Coordinate and lead weekly professional workshops, company tours, and networking events for undergraduates and graduates to connect with engineering leaders in corporate industry and academia; Recruit new SWE members, organize biweekly board meetings, and communicate monthly with SWE National chapter

MIT Career Fair 2009 Executive Committee

May 2009—September 2009

Communications Director

- Implemented the mass promotion of the MIT Career Week and the Career Fair to 4,000 undergraduates and 6,000 graduates on campus and recruited 280+ companies to participate.