

School Address:
Pembroke College
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TANYA GOLDHABER
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Education **UNIVERSITY OF CAMBRIDGE** **CAMBRIDGE, UNITED KINGDOM**
PhD Candidate in Engineering - Engineering Design Centre *Expected 2013*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY (M.I.T.) **CAMBRIDGE, MA**
S.B. in Mechanical Engineering (minors in Music and Cognitive Science), GPA: 4.8/5.0 *2010*

PEAK TO PEAK HIGH SCHOOL **LAFAYETTE, CO**
Valedictorian (4.0 unweighted GPA), Dean's List, National AP Scholar *2006*

Honors & Awards **MARSHALL SCHOLARSHIP**
• 2010 Scholarship Recipient – currently pursuing a PhD in Engineering at the University of Cambridge.

CAMBRIDGE INTERNATIONAL SCHOLARSHIP (CISS)
• The Cambridge International Scholarship is awarded by the University of Cambridge to up to 40 entering international graduate students per year. The awards are made on a competitive basis to those applicants considered by their departments to be the most outstanding. The award covers the full cost of tuition and fees for the duration of the recipient's graduate program.

HONOR SOCIETIES
• Tau Beta Pi, Pi Tau Sigma, Sigma Xi

KAWAMURA FELLOWSHIP
• 2010 Fellowship recipient.
• Awarded to two students from MIT and two from Harvard per year. The fellowship takes students to Japan and Thailand for five weeks over the summer as part of a cultural exchange meant to strengthen ties between Japan and the US.

MIT EMERSON SCHOLARSHIP PROGRAM (VIOLIN)
• Scholarship recipient, student of Antoine Van Dongen, 2006 – 2010
• MIT Concerto Competition Winner, 2009
• Recipient of the Ragnar and Margaret Naess Award for excellence as an Emerson String Scholar, 2008, 2009
• Recipient of the Philip Loew Memorial Award for Creative Accomplishment in Music, 2010

ASPEN MUSIC FESTIVAL (VIOLIN)
• Was accepted to and participated in the 2005 and 2006 Aspen Music Festival as a member of the Aspen Concert Orchestra and as a student of Herbert Greenberg.

Leadership **MASSACHUSETTS INSTITUTE OF TECHNOLOGY** **CAMBRIDGE, MA**
Gordon Engineering Leadership Program (GEL) *2008-2010*

• Selected to be a member of the pilot GEL class that will help shape the program for future years.
• GEL is a two-year program that emphasizes leadership skills in the context of real-world engineering problems. Students take relevant classes already present in the MIT curriculum as well as a once-weekly Engineering Leadership Lab that focuses on simulations and reflection. Students participate in an industry placement, sponsored by a mentor at their company, where they are given additional leadership responsibilities. Students must complete two independent projects as part of the Engineering Practice Requirement. Second year students in the program plan the Engineering Leadership Labs for the first year students.

Undergraduate Practice Opportunities Program (UPOP) *Academic Year 2007-2008*

• Participated in yearlong professional development course that emphasized skills in communication, teamwork, leadership, data analysis, process design, and decision-making.

Associate Advisor

Academic Year 2007-2008

• Mentored and advised incoming freshmen. Organized group activities.

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Experience BRITISH TELECOMMUNICATIONS (BT)

IPSWICH, UNITED KINGDOM

Summer Intern

Summer 2009

- Designed and ran experiments testing a modified Electronic Program Guide (EPG) and Social TV interface for the next generation of BT Vision.
- Based on Social TV research, formulated a product concept, which is now in development.
- Gave a series presentations to BT Partners and other BT affiliated groups on the use of technology by Generation Y.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CAMBRIDGE, MA

Undergraduate Thesis

Academic Year 2009-2010

- Helped professor Frey (thesis supervisor) form a collaboration with the Brain and Cognitive Sciences Department by carrying out the most thesis research with Ruth Rosenholtz in the Adelson Lab in the Brain and Cognitive Science department at MIT. Investigated how cognitive science principles (in this case, knowledge of visual cognition), can help aid designers to improve visual aspects of design.

Kamwisher Lab: Undergraduate Research in Cognitive Science

2008-2010

- Helped design and run an fMRI experiment investigating the neural basis of conceptual representations. Helped run a Transcranial Magnetic Stimulation (TMS) experiment investigating timing in the ventral visual stream.

Khademhosseini Lab: Undergraduate Research in Tissue Engineering

2007

- Designed gels of interpenetrating networks meant to mimic cartilage in the human body. Manufactured and tested a variety of gels that showed promise for further experimentation.

MEDTRONIC, INC.

MINNEAPOLIS, MN

Summer Associate

Summer 2008

- Worked as part of the manufacturing group for Spinal Cord Stimulation (SCS) in the Neuromodulation department.
- Implemented, tested, and assessed the manufacturability of conductors in new lead designs.
- Extensively made samples of and tested silicone molds to determine adhesive properties and co-authored a report on the results.
- Designed procedures for the manufacture of adhesive samples for biological testing.
- Supported documentation and implementation efforts for Corrective and Preventative Actions (CAPA).
- Assisted other engineers when necessary with projects such as Gauge R&R analysis and bond strength characterization.

BIOERVE SPACE TECHNOLOGIES (CU BOULDER)

BOULDER, CO

Research Assistant

Summer 2007

- Worked as part of the payload operations team helping to manage payloads aboard the International Space Station. Communicated with NASA about payload status, did preliminary troubleshooting when problems occurred, and recorded data from in-flight experiments.
- Designed, fixed, and tested flight and ground testing hardware. This included a muscular test apparatus for mice returning from flight and a device used to initiate highly controlled chemical reactions, which was flown aboard a Russian mission in October.
- Assisted other engineers with necessary assembly and testing on other flight projects.

Lab Assistant

2001 - 2002

- Assisted graduate students in assembly and testing of payloads and ground testing equipment.

Skills

Computer: Windows, Macintosh, Microsoft Office, SolidWorks, MATLAB, Java, C++
Languages: English, Spanish