Jenny (Yuan) Lu

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OBJECTIVE: Recent graduate with internship experiences seeking entry level, cross-functional engineering position.

EDUCATION:

Massachusetts Institute of Technology (MIT) – Cambridge, MA, USA
B. Sc. in Materials Science and Engineering, June 2015
GPA: 4.3/5.0
Courses: Mechanical Behavior of Materials; Materials Processing; Micro/Nano Processing Technologies; Innovation & Commercialization of Materials Technology; Engineering, Innovation, & Design; Project Engineering
Thesis Research: In-Situ Characterization of Carbon Nanotube (CNT) Forests via Electrochemical Impedance Spectroscopy

- Cultivated and prepared CNT samples on silicon wafers via chemical vapor deposition (CVD).
- Designed, fabricated, and debugged electrochemical cell setup for experimental data collection.
- Analyzed and processed cyclic voltammetry (CV) and impedance spectroscopy data and MATLAB fits.
- Results and conclusions incorporated into journal publication and conference papers (in-progress).

EXPERIENCE:

Jun 2015 – Aug 2015 **Xtreme Materials Lab @ Singapore University of Technology and Design (SUTD)** – Singapore
Summer Intern

- Studied crack and stress mechanics in crystalline silicon (c-Si) solar photovoltaic cells via modeling and simulations using finite element analysis/method (FEA/FEM) software Abaqus FEA.
- Tested solar module mechanical integrity via three-point bend and dynamic mechanical analysis (DMA).

Jan 2012 – May 2015 **MIT SDM and LGO Program Office** – Cambridge, MA
Accounting Support

- Audited accounting records and transactions to reconcile merchant statements and balance sheets.

Jun 2014 – Aug 2014 **IHI Corporation** – Yokohama, Kanagawa, Japan
Intern, Advanced Applied Science Department

- Investigated use of carbon nanowalls (CNWs) as saturable absorber (SA) material for ultrafast, passively mode-locked fiber lasers by collecting and analyzing laser testing data of polyimide-CNW films.

Jun 2013 – Aug 2013 **Sumeria Group** – New York, NY
Business Development Intern

- Researched and initiated partnerships with startups to support business model and expand network.

LEADERSHIP & ACTIVITIES:

May 2015 – Sep 2015 **MIT Innovation Diplomats Program** – Singapore
iDiplomat

- Researched and interviewed stakeholders (e.g. entrepreneurs, government officials, etc.) to learn about Singapore's innovation ecosystem and initiatives for promoting entrepreneurship and innovation.

Feb 2015 – Aug 2015 **LEAD Programme @ SUTD** – Singapore
Participant/Session Facilitator

- Engaged in eight weeks of training sessions to refine leadership skills within the student community.

Sep 2013 – May 2015 **Gordon-MIT Engineering Leadership Program (GEL)** – Cambridge, MA
Team Leader/Assessment Team Member

- Developed and polished technical, analytical, and communication skills necessary to succeed as leaders in engineering and industry through immersive engineering leadership courses and activities/challenges.

Dec 2011 – May 2015 **MIT China Care Club** – Cambridge, MA
Transition Advisor/Fundraising Chairperson/Executive Board Member/Secretary

- Organized fundraisers and playgroups with locally adopted Chinese orphans to raise awareness, publicity, and money (over $3000) to fund surgeries for Chinese orphans (more than 5 sponsored).

Aug 2012 – Sep 2014 **dynaMIT** – Cambridge, MA
Co-Director/External Relations Executive Board Member/Mentor

- Directed organization, logistics, outreach, publicity, and fundraising (over $15,000 total for 2014 session) for student-run club that provides a free, week-long STEM program for underprivileged middle schoolers to inspire STEM interest through hands-on activities/experiments, demonstrations, and lab tours.

SKILLS:

Languages: English (Native), Mandarin Chinese (Fluent), Japanese (Intermediate), Spanish (Conversant), Korean (Beginner)
Computer: Mathematica, Python, Java, CAD, MATLAB, Abaqus FEA
Laboratory: Scanning Electron Microscopy (SEM), X-Ray Diffraction (XRD), Chemical Vapor Deposition (CVD), etc.