School Address:
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Laura Jarin-Lipschitz

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Home Address:
1528 Montgomery Ave
Rosemont, PA 19010

Education

Massachusetts Institute of Technology — Cambridge, MA
Candidate for Bachelor of Science in Mechanical Engineering — June 2016

Minors: Energy, Physics ***GPA:*** 4.9/5.0

Activities:

- NCAA Varsity Women's Fencing (1st Team All-NFC, Epee Squad Leader, NCAA Regional Qualifier)
- Teaching Assistant for Physics I: Mechanics (Fall 2013); Mechanical Vibration (Fall 2014)

Experience

GE Aviation - Aviation Component Services Center — Cincinnati, OH
Intern — Jun 2014 – Aug 2014

- Planned & analyzed tooling, fixturing, spare parts, & floor layout for industrialization of GP7000 Turbine Center Frame repair.
- Developed over 70 operation procedure sheets for introduction of new repair products

MIT Nuclear Reactor Lab — Cambridge, MA
Undergraduate Researcher — Jun 2013 – Aug 2013

- Simulated neutron interactions with optical systems using ray-tracing program
- Wrote Python scripts for analysis of data collected from ray-tracing software
- Recommended instrument parameters for experiment based on simulation data

University of Pennsylvania High Energy Physics Group — Philadelphia, PA
Student Researcher on LSST (Large Synoptic Survey Telescope) — May 2012 – Aug 2012
Quarknet Intern — Jul 2011 – Aug 2011

- Tested analog-to-digital convertor (ADC) chips for use with temperature sensors
- Developed Verilog programming for serial port interface (SPI) to FPGA and for FPGA interface to muon detector

Projects

Mud Brick Mold Machine D-Lab: Design Final Project — Feb 2014 – May 2014
Designed & built mud brick molder for use in Amokolegwai, Uganda using only locally sourced materials.

Maslab (Mobile Autonomous Systems Laboratory) Participant; Mechanical Lead — Jan 2014
Competed in an autonomous robotics competition with 4 teammates. Modeled robot in SolidWorks and fabricated it using a laser cutter, 3D Printer, and machine tools.

FearKat Toy Product Design Final Project — Feb 2013 – May 2013
Created FearKat, a plush toy that is an infrared laser tag game & a night light. Controlled by Arduino and fabricated using 3D printing and plastic casting.

MIT Autonomous Lego Robotics Competition 1st Place winner — Jan 2013
Competed in autonomous robotics competition with 2 teammates. Designed & programmed a Lego robot that navigated around the playing surface and manipulated game objects.

VEX Robotics Co-Captain, Lead Programmer, Team Division Winner, & Teamwork Award at VEX World Championships — Sep 2010 – Jun 2012

Skills

Technical: SolidWorks; Machining; 3D Printing; Laser Cutter; Resin Casting; Basic Circuit Design; Arduino; FPGA; Soldering; Microsoft Office; Photoshop

Programming: Matlab/Simulink; Python; Verilog

Languages: Spanish (Working Proficiency)