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## EDUCATION

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### Harvard University, Cambridge, MA

**Expected Graduation: May 2017**

S.B. Degree Candidate in Mechanical Engineering, Computer Science Secondary

Relevant Courses: Solid Mechanics, Thermodynamics, Circuits, Materials Eng., Abstraction/Design, Statistics/Probability, Multivariable Calc., Linear Algebra/Differential Equations, Computer-Aided Mech. Design, Physics

### W. Tresper Clarke High School, Westbury, NY

**June 2013**

GPA: 4.0, Valedictorian, AP Scholar, Google Science Fair Global Finalist, National Merit Scholar, Coca-Cola Scholar

## WORK EXPERIENCE

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### Space Exploration Technologies, Inc. (SpaceX)

**Hawthorne, CA**

*Build Reliability Intern*

**May 2015 – August 2015**

- Designed, built, and implemented web verification platform for NASA Commercial Crew Program certification
- Spearheaded and wrote software package to automate generation of Detailed Inspection Plans for engineering drawings of flight vehicle parts, saving ~2 engineering hours/drawing in a library of ~300,000 drawing files
- Designed and produced mechanical fixture for vibration testing of Dragon V2 spacecraft pressure transducers

### Harvard Student Agencies, Inc. (HSA)

**Cambridge, MA**

*Stock and Product Manager, The Harvard Shop*

**October 2013 – February 2015**

*Founder and Managing Director, Boston Apparel Company*

**June 2014 – Current**

- Implemented an automated inventory reporting program, decreasing restocking transfer times by 50% overall
- Analyzed shipping delivery data to sign a strategic contract with Optima Worldwide Shipping, cutting international fulfillment costs by 30% and increasing web revenue by 40% over previous fiscal year
- Contributed to executing a \$2.5 million budget and reforecast analysis
- Spearheaded new partnership with Harvard Book Store to increase web sales with search engine optimization
- Managing new e-commerce subsidiary, including website backend development and inventory management

### Engineering Teaching Labs, Harvard University

**Cambridge, MA**

*ATV Design Team*

**February 2014 – May 2014**

- Conceptualized, designed, and constructed an electro-mechanical ATV used to traverse an obstacle course
- Prototyped using SolidWorks/MasterCam, CNC Milling, 3D Printing, and Laser Cutting

### Simmerling Laboratory, Stony Brook University

**Stony Brook, NY**

*Simons Research Fellowship*

**June 2012 – August 2012**

- Used NICS Kraken supercomputer to simulate and analyze the protein folding process

## ACTIVITIES AND LEADERSHIP

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### Harvard College Engineering Society

**October 2013 – Current**

*Junior Co-President*

- Hosted Harvard E3 Conference with guest speakers from major technology/engineering firms and startups
- Coordinated professors and students to reintroduce a mentor-mentee program for engineering concentrators

### Springboard: Harvard College's Design Club

**September 2014 – Current**

*Designer*

- Using human-centered design principles to implement a simpler laundry experience within Harvard houses

## SKILLS AND INTERESTS

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<b>Computer Skills:</b>	C, HTML/CSS, PHP, SQL, OCaml, Python, G-code, SolidWorks, VB, InDesign/Photoshop
<b>Languages:</b>	Spanish (conversational), Mandarin (conversational)
<b>Interests:</b>	Flight Simulation, Space Exploration, Aviation, Violin, Tennis, Traveling, Ultimate Frisbee