

# LAURA BETH FULTON

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## EDUCATION

**University of Pittsburgh** **Grad: APRIL 2018**  
*B.S.E. Mechanical Engineering, CS Concentration*  
Swanson School of Engineering, Academic Scholar, Honors College  
**Activities:** Co-founded (2015) Pitt's She Innovates Women's Hackathon  
Phi Sigma Rho Engineering Sorority, Symphony Orchestra, Pitt CS Club  
Carnegie Mellon Bagpipe Student: plays with the CMU Pipe and Drum Band

## TECH EXPERIENCE

**Microsoft Corporation** **JUNE – AUG. 2017**  
*Mechanical Engineering Intern, Surface*

- Will perform mechanical design and analysis as an intern on Surface

**Microsoft Corporation** **JUNE – AUG. 2016**  
*Explore Software Engineering/PM Intern, IoT Team*

- Developed support for Touch Input over I2c from a PiTFT Touchscreen (C++) into HID interface for Windows IoT Core running on Raspberry Pi. Integrated with SPI Display Driver for the touchscreen developed by other interns on the team.
- Lead integration of Touch, Display functionality into a 3D Printer control application. Published project for Windows Device Drivers to open source for IoT users and authored documentation.
- Won first place at the Microsoft Explore Tech Fair for best overall project.

**Square College Code Camp** **AUG. 2015**  
*1 of 20 female students nationally selected*

- Went to Square HQ in San Francisco for a week-long coding immersion program focusing on: iOS development, ML, architecture, and security

**Google Computer Science Summer Institute (CSSI)** **JULY 2014**  
*1 of 30 pre-college freshmen nationally selected for CSSI at Google HQ*

- Participated in a month-long intensive programming institute learning web app development in Python, HTML5, JS, jQuery, and Google App Engine. Coded with a team to produce Kinetic, a simple web e-card app

## RESEARCH EXPERIENCE

**Johns Hopkins University** **MAY – JUNE 2016**  
*Summer Researcher, Gray Laboratory, Chemical & Biomolecular Engr.*

- Conducted Biocomputing research in the Gray Lab which improved Rosetta biocomputing software (C++/Python) for canonical antibody CDR loop prediction.

**University of Pennsylvania** **JUNE – AUG. 2015**  
*NSF REU Summer Student Scholar, NANO/BIO Interface Center*

- 1 of 10 undergraduates selected nationally, conducted cutting-edge nanophysics research in the Dmndic Physics lab.

**University of Pittsburgh** **AUG 2014 – APRIL. 2016**  
*Academic-Year Research Assistant, Center for Craniofacial Regeneration*

- Assessed application of organosilane coatings to improve corrosion resistance of magnesium alloys for bone regeneration.

## SELECTED HONORS

**Plenary Speaker at Harvard** **2016**  
National Collegiate Research Conference

**IEEE WIE Conference Scholar** **2016**  
International Leadership Conference

**Anita Borg Grace Hopper Scholar** **2015**  
Grace Hopper Celebration

**Box Diversity Scholar** **2015**  
Box Inc. 1 of 5 selected nationally

**Microsoft YouthSpark Presenter** **2014**  
MSFT Ignite, Chicago (23K attendees)

**Siemens Competition Finalist** **2013**  
1 of 30 national Individuals honored as Regional Finalists. Competed at MIT.

**Intel STS Semifinalist** **2014**  
Honored for research in the nation's most prestigious science fair

**Microsoft YouthSpark Winner** **2014**  
1 of 5 global winners. Received funding for project "Science for Success" to encourage girls to explore STEM

## LEADERSHIP

**Co-founder of She Innovates** **2015 – 2017**  
Pittsburgh's first all-women's hackathon

**Google Student Ambassador** **2015 – 2016**  
Student rep. for Google on-campus

**President's Volunteer Service Award** **2015**  
Recognized by Obama for service

**Robot Team Captain** **2012 – 2014**  
IEEE South Jersey Robot Challenge.

Integrated: SolidWorks, Electrical Wiring, Mechanical Skills. Won fastest track time.

**Girl Scout Gold Awardee** **2011**  
Earned for project "Science for Success" for leadership to promote girls in STEM

## SELECT PUBLICATIONS

**Patent 9,326,919 ISSUED** **2016**  
Enamel Bond, safe tooth enamel

**ACS Nano Letters** IF: 13.77 **2017**  
*Monolayer WS2 nanopores for DNA translocation with light-adjustable sizes*

**APS Journal** IF: 7.65 **2016**  
*Nanopores in suspended WS2 membranes for DNA sequencing*

## HACKATHONS

UPenn PennApps (Won Best Cloud App), AT&T Smart Apps (Honorable Mention), HackMIT, CMU TartanHacks, UMich MHacks