

# Sarah Helen Bednar

213 Musket Circle • Lansdale, PA 19446 • 215-500-0865 • shb66@pitt.edu

## EDUCATION

<b>University of Pittsburgh</b>	<i>April 2018</i>
Bachelor of Science in Computer Engineering	GPA: 3.74
<i>Relevant Coursework</i>	<i>Credits: 98</i>
- Computer Organization and Assembly Language	- The Art of Making: Intro to Hands-On Systems Design and Engineering
- Intro to System Software	- Economics (Macro; Micro; Game Theory)
- Data Structures	- Linear Algebra; Calculus 3; Differential Equations
- Analysis and Design of Electronic Circuits	- Intro to Theoretical Mathematics
- Digital Logic; Digital Systems Lab	

## WORK EXPERIENCE

<b>ABB Inc.</b>	<b>Natrona Heights, PA</b>
<i>Systems Engineering Co-op</i>	<i>January 2016- present</i>

## SKILLS

<i>Languages</i>	<i>Software</i>
- Java, C, Matlab	- PSpice, Altera Quartus II, LaTeX, Adobe InDesign

## RELEVANT PROJECTS

<b>SteelHacks Hackathon: PopQs</b>	<i>February 2016</i>
Developed a study app to encourage consistent review of material by having questions pop up every time you unlock your phone; programmed in java and XML in android studio	
<b>Interactive Periodic Table of Elements</b>	<i>April 2015</i>
<i>ENGR 0716 Capstone Project</i>	
- Fabricated a giant periodic table that displays additional information on a screen about a particular element when the element's button is pressed as installation art; programmed in Python	
<b>She Innovate Hackathon: The Defenders</b>	<i>January 2015</i>
Developed a positive, fun game that challenges stereotypes and the lack of diversity in the gaming industry	
<b>Mr. Roboto: The Infrared Finder</b>	<i>July 2013</i>
<i>Rose Hulman Operation Catapult</i>	
- Created a robot that autonomously drives and stops at an infrared emitting ball; programmed in C	

## HONORS & AWARDS

SteelHacks Hackathon: "Third Place" and "Best Education/Language Hack"	<i>February 2016</i>
Honor Student Swanson School of Engineering	<i>2014- present</i>
University of Pittsburgh Honors Convocation: Student Honoree	<i>February 2015</i>
She Innovates Hackathon: "First Place" and "Most Creative"	<i>January 2015</i>
National AP Scholar	<i>August 2014</i>
Pittsburgh Foundation Wellington C. Carl Scholarship	<i>2014-2018</i>
James J. Kerrigan Memorial Scholarship	<i>2014-2018</i>
Mary Snyder Ziegler Scholarship	<i>2014-2018</i>
Sabre Systems STEM Scholarship Award	<i>2014-2015</i>
North Penn Area Scholarship Fund Association Scholarship	<i>2014-2015</i>
Bausch + Lomb Honorary Science Award	<i>June 2013</i>

## LEADERSHIP EXPERIENCE

<b>Academic Discussion &amp; Peer Tutoring (ADAPT)</b>	
<i>President</i>	<i>2012-2014</i>
- Chartered club, planned meetings, led discussions, tutored in math and chemistry	

## SERVICE WORK

Volunteer Income Tax Assistance (VITA), Greeter	<i>2013, 2014</i>
FBLA School Store – Volunteer	<i>2013, 2014</i>

## ACTIVITIES

Society of Women Engineers (SWE)	<i>2014-present</i>
Women in Computer Science (WiCS)	<i>2015-present</i>