SARAH BEDNAR

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EDUCATION

UNIVERSITY OF PITTSBURGH

BS in Computer Engineering
Minor in Mathematics and Economics
Expected April 2018 | Pittsburgh, PA
Cum. GPA: 3.74 / 4.0

SKILLS

TECHNICAL

Proficient:
Java • C • LaTeX
Novice:
Matlab • HTML/CSS •
Visual Basic•Android Dev
Software:
PSpice • Altera Quartus II• AutoCad •
Adobe InDesign

COURSEWORK

UNDERGRADUATE

- The Art of Making: Intro to Hands-On Systems Design and Engineering
- Advanced Digital Design Concepts
- Algorithm Implementation
- Intro to Computer Architecture
- Intro to System Software
- Data Structures
- Analysis and Design of Electronic Circuits
- Digital Logic; Digital Systems Lab

SERVICE WORK

Volunteer Income Tax Assistance (VITA)
Greeter 2013, 2014

FBLA School Store
Cashier 2013, 2014

ACTIVITIES

Society of Women Engineers (SWE)
2014 - present

Math Club
2014 - present

Women in Computer Science (WiCS)
2015 - present

Institute of Electrical and Electronics Engineers (IEEE)
2016 - present

WORK EXPERIENCE

ABB INC. | Systems Engineering Co-op

Jan 2016 – Aug 2017 | Natrona Heights, PA

- Created and fixed graphics for turbine HMI; performed Factory Assessment Test (FAT) testing the control system and logic
- Created bar chart and PV table for condition monitoring to be used in next Analyst release; Programmed with Visual Basic, C#, SQL
- Worked with Xilinx, AutoCad, SQL server, Teraterm, and ABB's Splus and Analyst
- Exposure to/worked on: FPGAs, pumps, relays, trips, digital & analog I/O

RELEVANT PROJECTS

POPQS: REINFORCED LANGUAGE LEARNING APP

SteelHacks Hackathon February 2016
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

INTERACTIVE PERIODIC TABLE OF ELEMENTS

ENGR 0716 Capstone Project April 2015
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

THE DEFENDERS: PROMOTING DIVERSITY IN GAMING

She Innovates Hackathon January 2015
Developed a positive, fun game that challenges stereotypes and the lack of diversity in the gaming industry

MR. ROBOTO: THE INFRARED FINDER

Rose Hulman Operation Catapult July 2013
Created a robot that autonomously drives and stops at an infrared emitting ball; programmed in C

LEADERSHIP

SOCIETY OF WOMEN ENGINEERS (SWE)

Activity Leader 2016 - present
Teach and lead STEM activities to encourage younger students to pursue careers in engineering for outreach events

ACADEMIC DISCUSSION & PEER TUTORING (ADAPT)

President 2012 - 2014
Chartered club, planned meetings, led discussions, tutored in math and chemistry

HONORS & AWARDS

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