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 • Matlab • LaTeX
Novice:
Python • HTML/CSS • Android Dev
Learning:
AutoCad • Scala • Javascript
Software:
PSpice • Altera Quartus II • Adobe InDesign

COURSEWORK

UNDERGRADUATE

- The Art of Making: Intro to Hands-On Systems Design and Engineering
- Computer Organization and Assembly Language
- 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 – Present | Natrona Heights, PA

- Created and fixed graphics for turbine HMI; performed Factory Assessment Test (FAT) testing the control system and logic
- Gained familarity of complex schematics; modified VHDL and C code for new DCS module for turbine control and condition monitoring
- Worked with Xilinx, AutoCad, 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 student 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