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 • LTFX

Novice:

Python • HTML/CSS • Android Dev

Learning:

Javascript • Scala • SQL

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

2016 - present

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

LEADERSHIP

SOCIETY OF WOMEN ENGINEERS (SWE)

ACTIVITY LEADER

Teach and lead STEM activities to encourage younger student to pursue careers in

Engineering for several 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 H	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