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
Learning:
Javascript• Go
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)
Women in STEM Conference Co- Chair   Nov 2016 - Jan 2016
Organized annual conference on the topic of empowering females in STEM for University of Pittsburgh students and professionals in the Pittsburgh community
Outreach Event Activity Leader   Jan 2015 - present
Plan and lead hands-on, engineering related activities for K-12 children in the Pittsburgh community

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