SARAH BEDNAR

http://pitt.edu/~shb66/

213 Musket Circle • Lansdale, PA 19446 • (267) 645-9744 • shb66@pitt.edu

EDUCATION

UNIVERSITY OF PITTSBURGH
BS in Computer Engineering
Minor in Economics
August 2018 | Pittsburgh, PA
Cum. GPA: 3.77 / 4.0

INTERNATIONAL EXPERIENCES

NATIONAL UNIVERSITY OF SINGAPORE
Non-Graduating Exchange
Spring 2018 | Singapore

CLEAN ENERGY GRID ENGINEERING: SCANDINAVIA
May 2017 | Denmark & Sweden
Awarded:
- Swanson School of Engineering Study Abroad Scholarship
- Study Abroad Office Scholarship

SKILLS

TECHNICAL
Proficient:
Java • C
Novice:
Python • OpenGL • Android Dev
Tools:
PSpice • Altera Quartus II• AutoCAD • Adobe InDesign• LaTeX

SERVICE WORK

Invent it. Build it.

Role Model   2016, 2017
Maker Faire

Volunteer   2016
Volunteer Income Tax Assistance (VITA)

Greeter   2013, 2014

ACTIVITIES

Society of Women Engineers (SWE)
2014 - 2018

Women in Computer Science (WiCS)
2015 - 2018

Institute of Electrical and Electronics Engineers (IEEE)
2016 - 2018

Pitt Cycling
2017 - 2018

WORK EXPERIENCE

HARRIS CORPORATION | Embedded Software Engineer
June 2018 – Present | Palm Bay, FL
- Focus on embedded software design, integration, and testing for real-time digital maps that provide advanced situational awareness for safety-critical flights
- Develop python scripts to test software quality and automate routine tasks

ABB INC. | Systems Engineering Co-op
Jan 2016 – Aug 2017 | Oakmont, PA
- Supported customer projects for turbine control systems in power generation
- Designed and assembled Condition Monitoring demo kit to be **mass produced** for sales shows around the world
- Designed DCS Lab test panel (layout, wiring, BOM) for internal testing
- Created and fixed graphics for turbine HMI

RELEVANT PROJECTS

PROJECT ABRACADABRA: LOCKLESS BOX
Java, Raspberry Pi   Dec 2017
Fabricated a puzzle lock box with no discernable unlocking mechanism (i.e. locks or keypad) and developed a companion android app for multi-factor authentication

POPQS: REINFORCED LANGUAGE LEARNING APP
Java, Android Studio   Feb 2016
Developed a study app to encourage consistent review of material by having questions pop up every time you unlock your phone

INTERACTIVE PERIODIC TABLE OF ELEMENTS
Python, Raspberry Pi   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

MR. ROBOTO: THE INFRARED FINDER
C, PIC Microcontroller   July 2013
Created a robot that autonomously drives and stops at an infrared emitting ball

LEADERSHIP

SOCIETY OF WOMEN ENGINEERS (SWE)

Women in STEM Conference Co- Chair   Nov 2016 - Jan 2017
Organized annual conference (80+ attendees) on the topic of empowering females in STEM for the Pittsburgh community; Recognized as the **OCC event of the year**

Outreach Event Activity Leader   Jan 2015 - Dec 2017
Planned and led hands-on, engineering related activities for K-12 children in the Pittsburgh community impacting 400+ youths; Dedicated 60+ volunteer hours

Social Chair   Aug 2017 - May 2018
Coordinated fun events to foster strong relationships among societal members

HONORS & AWARDS

Outside the Classroom Curriculum (OCC) Honor Society	Dec 2017
CodeDay Hackathon: **Best Application**	Nov 2017
Anita Borg Institute Grace Hopper Celebration **Student Scholar**	Oct 2017
SteelHacks Hackathon: **Third Place** & **Best** Education/Language Hack	Feb 2016
She Innovates Hackathon: **First Place** and **Most Creative**	Jan 2015
Honor Student, Swanson School of Engineering	2014 - 2018
National AP Scholar	Aug 2014