

SARAH BEDNAR

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EDUCATION

UNIVERSITY OF PITTSBURGH

BS IN COMPUTER ENGINEERING

Minor in Economics

August 2018 | Pittsburgh, PA

summa cum laude

Cum. GPA: 3.78 / 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 • C++ • OpenGL • Android Dev

Tools:

PSpice • Altera Quartus II • AutoCAD •

Adobe InDesign • \LaTeX

COURSEWORK

ELECTIVES

- Embedded Systems Design
- Software Quality Assurance
- Computer Graphics
- Computer Networks
- Signals and Systems
- The Art of Making: Intro to Hands-On Systems Design and Engineering

ACTIVITIES

Generative Art and Adversarial Networks (GAAN)

2018 - present

Society of Women Engineers (SWE)

2014 - present

Women in Computer Science (WiCS)

2015 - 2018

WORK EXPERIENCE

HARRIS CORPORATION | EMBEDDED SOFTWARE ENGINEER

C++, Python, Java

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 tools to automate routine tasks and test software quality

ABB INC. | SYSTEMS ENGINEERING CO-OP

C, VHDL, AutoCAD

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)

OUTREACH EVENT ACTIVITY LEADER

Jan 2015 - Dec 2019

Planned and led hands-on, engineering related activities for K-12 children in the PA and FL community impacting 400+ youths; Dedicated 100+ **volunteer hours**

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**

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