

# 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

**GOOGLE** | SOFTWARE ENGINEER

Java

Sep 2019 – present | Pittsburgh, PA

- Working to provide a delightful, conversationally fluent, personalized shopping experience for the world

**HARRIS CORPORATION** | EMBEDDED SOFTWARE ENGINEER

C++, Python, Java

June 2018 – August 2019 | 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

## 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. ROBOT: 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