

# OLIVIA BANKS

ENGINEER

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XXX-XXX-XXXX

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XXXXXXXXXXXX, XX, XXXXX

## OBJECTIVE

Engineering senior with diverse experience in engineering and computer science. Looking to bring my creativity and analytical skills to a new role.

## EDUCATION

**Computer Engineering Sc.B.** Brown University 2017 - 2021

**GPA:** 4.00

**Engineering Science** University of Oxford 2019 - 2020

Perry Hall High School 2013 – 2017

**GPA:** 4.00 **Rank:** 1/512

## SKILLS

JavaScript Python MATLAB Java C/C++ Verilog GIT Web Design UI/UX

Solidworks & AutoCAD Eagle Circuit Design LTSpice Circuit Simulations

Creativity Teamwork Problem Solving Critical Thinking Design

## ACHIEVEMENTS

National Merit Scholar - TBP Engineering Honor Society - Valedictorian, Perry Hall High School  
Girl Scout Gold Award Recipient - AMDS Recognition Award - SEG Scholarship Recipient  
Society of Women Engineers Scholarship Winner - #1 in class, Maryland Math League Competition

## EXPERIENCE

### AIR & MISSILE DEFENSE SECTOR INTERN

*Johns Hopkins Applied Physics Lab, MD / April – August 2020*

- Worked with AWS, Kubernetes, and Greymatter to develop cloud computing platform
- Developed animated GUI displaying cloud service interactions

*Johns Hopkins Applied Physics Lab, MD / June – September 2019*

- Used Python to add functionality to Electronic Warfare simulation
- Constructed probabilistic simulation in MATLAB with interactive GUI
- Created scatterplots and histograms to aid data interpretation

## **TEACHING ASSISTANT, HONORS INTRO TO ENGINEERING**

*Brown University, RI / September – December 2018*

- Taught introductory engineering concepts and assisted students with problem sets & MATLAB

## **RESEARCH ASSISTANT**

*Johns Hopkins Computational Sensory Motor Systems Lab, MD / May – August 2018*

- Researched, designed, and prototyped an electromyographic sensor/processor unit for medical research purposes

*Harris Fluid Mechanics Lab, RI / Jan – May 2018*

- Used AutoCAD to design a 3D-printed droplet generator and programmed Arduino to control it

## **ENGINEERING TECHNICIAN**

*Reuling Associates, MD / June – August 2017*

- Conducted welding checks, column plumbing, read and interpreted technical drawings

## **EXTRACURRICULAR ACTIVITIES**

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### **HACKATHON PARTICIPANT**

*Hack Harvard, MA / 2018*

- Won Microsoft Azure Champ Challenge for use of machine learning
- Wrote Python algorithm for Raspberry Pi, ultrasonic sensor, servo motors
- Collaborated on automatic sorting device to improve recycling efficiency

*Hack@Brown, RI / 2018, 2017*

- Learned Android app development procedures and collaborated using GIT

### **BROWN SPACE ENGINEERING**

*Brown University, RI / 2017-2019*

- Used computer aided design to build models of satellite components
- Designed experiments testing the effects of space-like conditions on extremophile organisms to examine viability of ecosystems in space

### **WRITING CLUB**

*St Edmund Hall Writing Society, University of Oxford, UK / 2020*

*Novel Writing Club, Brown University, RI / 2017-2019*

- Peer-edited writing and wrote 50,000 words of a novel. Presented excerpt at reading event

*Writing Club, Perry Hall High School, MD / 2014-2017*

- Founder and president of Writing Club. Designed workshops to improve writing and editing skills, led recruitment and advertising for club

### **ATHLETICS**

*Oxford Parkour Club, University of Oxford, UK / 2020*

*Mountaineering Society, University of Oxford, UK / 2020*

*Brown University, RI / 2017-2019*

- Brown Parkour Club executive board member
- Brown Grappling and Mixed Martial Arts Club member