

# — Robin — Graham-Hayes



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Olin College of Engineering B.S. Engineering: Mechatronics May 2022

Baltimore Polytechnic Institute
Ingenuity Program
May 2017

Skills



Laser cutting 3D printing Class 3 Solder Shopbot CNC Sheet Metal Manual Mill Manual Lathe

Adv. Woodwork



SolidWorks
MATLAB
Illustrator
Python
Arduino C++
KiCAD
LaTeX
Photoshop

## — Experience —

#### The Shop, Olin College

#### Shop Assistant

Aug '19 | Present

- Train students to use all machines and tools within the Wood Shop and Shopbot spaces
- Maintain and hold office hours to provide guidance and a quality resources within the shops

#### Shop Fellow

June '20 | Aug '20

- Developed and improved machine and work order systems to streamline shop operations
- Designed Posters, logos, and improved documentation using Adobe Illustrator, Google sheets, and Miro

#### LAIR Lab, Olin College

June '19 | Aug '19

 Designed Physical Therapy equipment for children with Cerebral Palsy using SolidWorks, prototyping, and Soft Robotics

### DotBot, Olin College

Sept '19 | Nov '19

- Created a CNC Stippling robot to print on 2' by 3' art paper
- Led the mechanical design sub team using Solidworks,
   Rapid Prototyping, maunual/CNC Machining, Arduino,
   Technical drawings, Circuit Design, and Logo design
- Visit poe.olin.edu/2019/dotbot to learn more!

#### Northrup Grumman

Sept '15 | May '17

- Created automated volumetric sorting machine using NX, Arduino, and prototyping skills
- Designed and built robotic mechanism to jump a meter
- Presented engineering projects to NGC executives

#### RPK Lab, Johns Hopkins

May '15 | Aug '16

- Created and tested a magnetic linear encoder for a modular self-replicating robot using Arduino, SolidWorks, rapid fabrication
- Created a modular color tracking robot using three-wheel omnidrive, OpenCV, arduino to demonstrate autonomous decisions

## — Leadership —

Resident Resource, Olin College of Engineering '18 | Present

• Resource for all students, Emotional / Cultural support, Basic emergency response

**Shop Rep.,** Olin College Machine Shop

'20 | Present

- Lead the Woodshop/Shopbot team
- Communicate student needs with shop staff

Class of 2022 Rep., Council of Olin Reps. Sept '18 | May '19 Eagle Scout, BSA Jan '10 | Aug '18