Anya L. Keller

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SKILLS

Machining and Fabrication   4 Years in High School and 2 in College
- **CAD:** *SolidWorks*, *Autocad, Onshape*
- **CNC & CAM:** *GibbsCAM*, *Fusion 360* and *SolidCam*
- **Subtractive:** Manual mill and lathe work, water jet, laser cutting
- **Additive:** Plastic injection molding and SLA & FDM 3D printing (*Formlabs*, *Stratasys, and more*)

Computer Science   3 Years in High School and 1 in College
- *Arduino* circuitry and programming
- Database management with *MySQL* and *MongoDB*
- Website development:
    - *HTML + CSS + Javascript + JQuery*
    - *React.js*, *Node.js*, *Express.js*, *NPM*
    - *WordPress PHP*
    - *Python Flask* with *Jinja* Templates
- Additional languages: *MATLAB*, *Python*, and *Java*

CURRENT EMPLOYMENT AND EDUCATION

- **Boston University School of Engineering ||** *Mechanical Engineering*   September 2021 - Present
- **Machine Shop Laboratory Assistant**   September 2021 - Present

In charge of injection molding machine maintenance, documentation, and demonstrations. Manufacturing precision parts using CNC and manual mills, lathes, waterjet, 3D printers, and various shop tools.

EMPLOYMENT HISTORY

- **Junior Engineer ||** *Kite and Rocket Research*   November 2018 - August 2021

Designed and constructed an 8-foot "stomp rocket" for the Chicago Toy and Game Fair 2019. Responsibilities included: prototyping, CAD, procurement, manufacturing, and assembly.

- **Full-Stack Web Dev Bootcamp Teaching Assistant ||** *Columbia University*   October 2020 - April 2021

Lead breakout rooms of students in groups of 15 through activities and held office hours. The bootcamp covers the fundamentals of web dev including deployment, testing, git workflow, and database management.

- **Engineering Intern ||** *Kite and Rocket Research*   Summer 2016 and 2018

Project work included: programming and servicing an arduino-powered window plotting machine, automation of the company lathe feed, and redesigning the shop's compressed air system.

- **Primary Machinist ||** *StuyPulse Robotics Team 694, New York, NY*   September 13 - June 2017

Manufactured key robot parts from drawings and CAD files and directed and trained students on the usage and upkeep of mills and lathes. Led prototyping projects and worked on robot design and construction.

EDUCATION

- **Full-Stack Web Dev Bootcamp at Columbia University**   July 2019 - January 2020
- **Stuyvesant High School**, New York, NY   Class of 2017

REFERENCES

Ronald Kunicki, Mentor StuyPulse Robotics - ronkunicki@hotmail.com
Robert Victor, Founder and CEO of *Kite and Rocket Research* - robert@kiteandrocket.com