Anya L. Keller

Tel: (646)-206-8789 Email: alkeller@bu.edu Portfolio: anyakeller.github.io/portfolio

Dynamic mechanical engineer driven by curiosity and energized by innovation. Delivers efficient solutions rooted in mechanical design and manufacturing experience to meet client needs.

EDUCATION

Boston University *Mechanical Engineering, Manufacturing Concentration* Class of 2024

Columbia University *Full-Stack Website Development Bootcamp* July 2019 - January 2020

Stuyvesant High School, New York, NY Class of 2017

WORK EXPERIENCE

Machine Shop Laboratory Assistant *BU EPIC* September 2021 - Present

Boy 22A Injection molding machine - maintenance, documentation, and demonstrations.

Part manufacturing and usage instruction - CNC and manual mills, lathes, waterjet, 3D printers, and various shop tools.

Product Development Intern *va-Q-tec AG Würzburg, Germany* June 2023 - August 2023

Thickness Measurement Device - Used to improve vacuum insulation panel thermal conductivity calculation accuracy and repeatability. Features included: automatic data recording, testing procedure redesign with consideration for DIN standards, and measurement mechanism prototyping. Utilized Gantt chart project planning and morphological analysis.

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

Responsible for designing, planning, prototyping, CAD, procurement, manufacturing, and assembly of the following:

8-Foot “Stomp Rocket” for Chicago Toy and Game Fair

Vacuum Splint to Treat Peyronie's Disease

CV Ping-Pong Ball-Tracking Robot

Mill Spindle Power Switch Automatic Safety Cover

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

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

Machine Shop Compressed Air Delivery System

Repair of Arduino-Controlled Window Plotting Robot

Primary Machinist *StuyPulse Robotics Team 694, FIRST Robotics Competition* 2013 - 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 teams and worked on robot design and construction.

SKILLS

Design

CAD

SolidWorks, Autocad, Creo, Onshape

CAM

GibbsCAM, Fusion 360, SolidCam

Robotics

Arduino

Motor control (DC, stepper, servo)

Computer vision: OpenMV, PixyCam

Machining and Fabrication

General Shop

Manual Mill and Lathe Work

Waterjet Cutting

Laser Cutting

Additive

3D Printing (SLA & FDM): Formlabs, Stratasys, MakerGear, Cubicon

Plastic Injection Molding: BOY 22 A

Computer Science

Languages

MATLAB, C, Python, Java

Database Management

SQL, MongoDB, Firebase

Workflow

GitHub, TravisCI, Kanban, GitLab

INTERESTS AND SECONDARY SKILLS

Full Stack Website Development

Github Pages, Heroku

JavaScript Node.js, React.js, Express.js, NPM

PHP WordPress

Python Flask

Human Languages

Conversational: Italian and German

Additional: Mandarin Chinese, French

REFERENCES available upon request

Stephen Chomyszak, Director, *EPIC* and Professor of the Practice at *Boston University* - schomysz@bu.edu

Robert Victor, Founder and CEO of *Kite and Rocket Research* - robert@kiteandrocket.com