

Zachary A. Sherman

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EDUCATION

- Olin College of Engineering, Needham, MA December 2023
 - Bachelor of Science in Mechanical Engineering
 - Recipient of four-year, 50% Olin Merit Tuition Scholarship
- Gann Academy, Waltham, MA June 2019

SKILLS

- Machine shop trained: mill, lathe, drill press, laser cutter, 3D printer
- Onshape, Python, MATLAB, SolidWorks, Adobe Creative Cloud Suite, Figma, KiCad, HTML/CSS
- Proficient in French and Hebrew

EXPERIENCE

Formlabs, Somerville, MA - Mechanical Engineering Intern Summer 2022

The professional 3D printer of choice for engineers, designers, and manufacturers around the globe.

- Designed and built parts and test equipment for next-generation SLA 3D printers
- Optimized in-house small-scale manufacturing processes for proprietary next-gen parts
- Assembled prototype next-gen parts and verified quality using a Keyence Profilometer

Onshape, a PTC Business, Boston, MA

Product design platform combining 3D CAD, PDM, and collaboration in the cloud.

User Experience (UX) Intern Summer 2021

- Designed prototypes for major new software features in Figma
- Created library of vector “components” for UX team, enabling faster software prototyping
- Wrote specifications for new features and worked with developers to implement them

Quality Assurance Intern September 2020-January 2021

- Tested new features for quality before public release
- Discovered and reported over 600 bugs in production and beta software using JIRA
- Assisted in translating Onshape into French
- Achieved Onshape Associate and Onshape Professional certifications

MetaBronx, Bronx, NY - Photography Mentor August 2020

Entrepreneurship education program to accelerate startups founded by untapped demographics.

- Designed interactive curriculum including photography, photo editing, and portfolio publishing
- Taught curriculum via video call to approximately 15 high school students

PROJECTS

Information about additional projects available in portfolio at www.zacharysherman.com/portfolio.

Brandeis Rosbash Lab FlyBox Redesign - Senior Capstone Project in Engineering (SCOPE) Fall 2022-Present

*Light-tight box equipped with entrainment lights and video recording to detect *Drosophila* (fruit fly) activity/sleep patterns.*

Background information: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7081347/>

- Working in group of five students to redesign FlyBox to be more robust, easier to assemble and use
- Designed and implemented React web-based UI to be used by researchers for programming FlyBox tests

Video Camera Slider Motorization 2020-21

- Designed, 3D printed, and assembled parts to attach a motor, battery, and belt system to a commercially available camera slider
- Wrote code to control the slider from the unit or using an app

ACTIVITIES

- Amateur Radio Technician Class license, callsign KC1NXK
 - Volunteer regularly for public service events including Boston Marathon and Head of the Charles Regatta
 - Co-leader of Olin Collegiate Amateur Radio Club (OCARC)
 - Active member of Sci-Tech Amateur Radio Society (STARS) at New England Sci-Tech
- Sound engineer for eight Gann Academy productions and other Boston-area community theaters
- General Member of Olin College Honor Board
- Pursuing Private Pilot Certificate