RYAN PENG

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ryanzengpeng@gmail.com

SKILLS

Code

MATLAB	HTML/CSS
Python	Java
Arduino	JavaScript

CAD/CAM

SolidWorks, Fusion 360, ABAQUS, Rhino, SketchUp

Shop

CNC, Woodwork, 3D Print, Laser Cut, Electronics, Basic Metalwork

Live/Media

DaVinci Resolve, Final Cut Pro X, Pro Tools, QLab, ETCnomad

LEADERSHIP

College Curriculum Council
Voting Member | Oct 2022 – present

Better World by Design
Co-Chair, Financial Signatory | Nov 2021 – present

The Critical Review
Editor | Sep 2021 – present

Formerly
Brown/RISD STEAM
Design for America RISD | Brown
TEDxBrownU

AWARDS

Eagle Scout
Boy Scouts of America

Presidential Scholar Semifinalist
US Department of Education

VOLUNTEER

St. Jude Children's Research Hospital
HS Volunteer | Jul – Aug 2019, 2020

Developed Python program to analyze protein uniqueness in large proteomics data sets on the research side. Organized daily activities for patients and visited inpatients on the clinical side.

TEDx Memphis
Light Board Op. | Jan – Feb 2018, 2019, 2020

Coordinated hundreds of event cues across 150+ lights with stage managers. Completed full technical event setups and teardowns in hours-long timeframes as stage crew.

EDUCATION

Brown University | 3.98 GPA

Providence, RI | Graduating May 2025

- Pursuing **Design Engineering, Sc.B.** and **Computer Science, A.B.**
  Relevant coursework includes: Intro to Eng. Design, Dynamics and Vibrations, Thermodynamics, Solid Mechanics, Computer-Aided Vis. and Design, Design of Mechanical Assemblies, Object-Oriented Programming, Data Structures and Algorithms, Multivariable Calculus, Ordinary Differential Equations, Statistical Inference

Rhode Island School of Design

Providence, RI | Cross-Registration

- Studio and seminar coursework in **Industrial Design**, **Theory and History of Art and Design**

MIT Sloan School of Management

Cambridge, MA | Cross-Registration, Spring 2024

- Graduate-level coursework in **Product Design and Development**

EXPERIENCE

Brown U. School of Engineering | Head Teaching Assistant

Providence, RI | August 2022 – present

- With one co-HTA, manage 50+ teaching assistants, homework, projects, and office hours.
- Lead weekly studio, hold office hours, and mentor group projects.
- Grade 30-40 homeworks weekly.

Ocean Sunfish Research Project | Student Researcher

Monterey, CA (remote) | May 2023 – August 2023

- Analyzed, managed, and populated a citizen science database of Galapagos ocean sunfish used for non-invasive computer vision tagging.

St. Jude Children's Research Hospital | Undergrad. Researcher

Chi Lab | Memphis, TN | May – August 2022, 2023

- Adapted Linux high-performance computing cluster data analysis suite to a user-facing, open-source Windows standalone application.
- Genotyped up to 750 murine samples by polymerase chain reaction (PCR) and agarose gel weekly. Performed sgRNA cloning and immunostaining on demand.

Governor's School for Emerging Tech | Student Researcher

Wilson Lab | Cookeville, TN | June – July 2019

- Performed thermomechanics and cryogenics research of lead-free SAC305 solder including finite element analysis (FEA), tensile testing, electron microscopy, and thermal cycling.

LANGUAGES

Latin   Mandarin