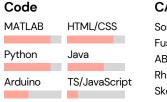
RYAN PENG

ryan_peng@brown.edu (901) 730 6092 ryanzengpeng@gmail.com

ryanzpeng.com

SKILLS

Shop



CAD/CAM

SolidWorks, Fusion 360, ABAQUS (FEA), Rhino, SketchUp

Live/Media

Rapid Prototyping, CNC, Woodwork, 3D Print, Laser Cut. Electronics. Basic Metalwork & Machining

DaVinci Resolve, Final Cut Pro X. Pro Tools, OLab. **ETCnomad**

LEADERSHIP

College Curriculum Council

Voting Member | Oct 2022 - present

Better World by Design Conference

Co-Chair, Financial Signatory | Nov 2021 - present

Meiklejohn Peer Advising

First-Year Advisor | Aug 2023 - 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: Design of Mechanical Assemblies, Computer-Aided Vis. and Design, Solid Mechanics, Thermodynamics, Dynamics and Vibrations, Intro to Eng. Design, 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

ENGNO032 Intro to Engineering: Design | Providence, RI | August 2022 - present

- With one co-HTA, manage 50+ TAs, homework, projects, and office hours for 350+ students.
- Make critical decisions regarding organization and training leading up to and during the course.
- Lead weekly studio, hold office hours, and mentor group projects on design thinking, statics.

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

I atin Mandarin