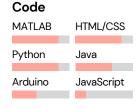
# RYAN PENG

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ryanzpeng.com

#### **SKILLS**

Shop



# CAD/CAM

SolidWorks, Fusion 360, ABAQUS (FEA), Rhino

# SketchUp Live/Media

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

## **LEADERSHIP**

CNC, Woodwork,

Basic Metalwork

Electronics.

3D Print, Laser Cut.

#### 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+ teaching assistants, homework, projects, and office hours.
- Make critical decisions regarding organization and training leading up to and during the course.
- Plan and lead weekly studio, hold office hours, and mentor group projects.

## 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