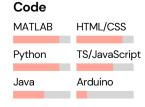
# RYAN PENG

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ryanzpeng.com

#### SKILLS

Shop



## CAD/CAM

SolidWorks, Fusion 360, ABAQUS (FEA), GD&T, Rhino, SketchUp

# Live/Media

Rapid Prototyping, CNC, DaVinci Resolve, Woodwork, 3D Print, Final Cut Pro X, Laser Cut. Electronics. Pro Tools, OLab. Basic Metalwork & Machining **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

#### **PROJECTS**

#### **Everyday Carry Smart Pill Dispenser**

Team | Sep 2023 - Dec 2023

Leveraged user and market research to tackle pill discrimination, dispensing, and intake control. Prototyped a novel mechanical assembly addressing constraints elegantly and user-first.

#### **Brass Lamp**

Solo | Sep 2022 - Dec 2022

Experimented with form-first ideation to develop a seamless light fixture, which was adapted to handmanufacturing processes to produce a physically aesthetic and electronically functional lamp.

#### **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, Design Brief, Solid Mechanics, Thermodynamics, Dynamics and Vibrations, Intro to Eng. Design, Object-Oriented Programming, Data Structures and Algorithms, Computer Systems, 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

#### **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**

Latin  Mandarin

