

# RYAN PENG

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## SKILLS

### Code

MATLAB	HTML/CSS
Python	TS/JavaScript
Java	C

### Shop/MFG

Rapid Prototyping, JDE, Tulip, Woodwork, 3D Print, Laser Cut, Basic Metalwork, CNC, Machining, Arduino, Rasp. Pi

### CAD/CAM

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

### Live/Media

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

## LEADERSHIP

### Meiklejohn Peer Advising

First-Year Advisor | Aug 2023 – present

### The Critical Review

Editor | Sep 2021 – present

### College Curriculum Council

Voting Member | Oct 2022 – May 2024 (2-year term)

### Better World by Design Conference

Co-Chair, Financial Signatory | Nov 2021 – Nov 2023

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 hand-manufacturing processes to produce a physically aesthetic and electronically functional lamp.

## EDUCATION

### Brown University | 3.96 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, Coordinated Mobile Robotics, Design Brief, Human Factors, Systems Thinking, Social Research Methods, Data Structures and Algorithms, Computer Systems, Object-Oriented Programming, User Experience and Interfaces, Applied Ordinary Differential Equations, Multivariable Calculus, 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

### Tiffany & Co. | New Product Development & Integration Intern

Cumberland, RI | June 2024 – present

- Analyze and refine new product designs with craftspeople for large-scale internal manufacturing.
- Coordinate with leads to manage prototyping and production test runs for new product launches.
- Optimize manufacturing processes through BOM creation, time studies, work instructions, costing.

### Brown U. School of Engineering | Head Teaching Assistant

ENGN0032 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

