

# RYAN PENG

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## SKILLS

### Shop/MFG

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

### Code

MATLAB	HTML/CSS
Python	TS/Javascript
Java	C

### CAD/CAM

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

### Live/Media

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

## AWARDS

### Fulbright Program Grantee (Study, NL)

US Department of State, 2025

### Presidential Scholar Semifinalist

US Department of Education, 2021

### Eagle Scout

Boy Scouts of America, 2020

## LEADERSHIP

### The Critical Review

Editor | Sep 2021 – May 2025

### College Curriculum Council

Voting Member | Oct 2022 – May 2024

## PROJECTS

### mnemo

Solo | Sep 2024 – May 2025

Designed and developed a pendant that captures multisensory data and leverages AI to create sensory snapshots, using design friction to enhance the user's memory of significant moments.

### 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

### Delft University of Technology

Delft, NL | Graduating Jun 2027

- Pursuing **MSc Integrated Product Design**, Faculty of Industrial Design Engineering
- Supported by Stichting Fulbright Commission the Netherlands

### Brown University | 3.96/4.00 GPA

Providence, RI | Sep 2021 – May 2025

- **ScB Design Engineering** and **AB Computer Science**, *magna cum laude* (sole university honors)

### Rhode Island School of Design

Providence, RI | Cross-Registration | Winter 2022, Fall 2022

- 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 – December 2024

- Analyzed and refined product designs, mechanisms, and fixtures for large-scale manufacturing.
- Delivered prototypes, process revisions for major product line extension on-time and under budget.
- Developed BOMs, time studies, work instructions, costing for 15+ new product lines or extensions.
- Kickstarted prototyping and production test runs for 40+ product styles to prove manufacturability.
- Optimized manufacturing routing and machining, jewelry techniques for up to 25% efficiency gain.

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

ENGN0032 Intro to Engineering: Design | Providence, RI | August 2022 – December 2024

- 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 data analysis CLI suite to a open-source Windows standalone GUI 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

