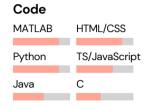
RYAN PENG

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ryanzpeng.com

SKILLS



Rapid Prototyping, JDE, Tulip,

Woodwork, 3D Print, Laser

Cut. Basic Metalwork. CNC.

Machining, Arduino, Rasp. Pi

CAD/CAM

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

Live/Media

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

LEADERSHIP

Shop/MFG

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 handmanufacturing 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 I 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.
- Coordinated with leads to manage prototyping and production test runs for 40+ new product styles.
- Optimized manufacturing routing and machining, jewelry techniques for up to 25% efficiency gain.

Brown U. School of Engineering | Head Teaching Assistant

ENGNO032 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 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