

# Ryan J. Murphy

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## **OBJECTIVE**

Highly motivated Manufacturing & Design Engineering student seeking a summer internship to gain professional work experience, contribute to innovative design-driven engineering projects, and enhance technical skills.

## **EDUCATION**

**NORTHWESTERN UNIVERSITY** | Evanston, IL

B.S. Manufacturing & Design Engineering

Expected June 2026

Minors: Computer Science and Art, Theory & Practice

GPA: 3.77/4.00

2022 Hispanic Scholarship Fund Scholar | 2025 Bay Area Immersion Program Fellow

*Relevant Coursework:*

Design Thinking & Communication I-II, Engineering Analysis I-IV, Mechanical Engineering, Materials Science, Electronics Design, Data Structures & Algorithms, Computer Integrated Manufacturing, User Experience Design

## **SKILLS**

CAD (SolidWorks, Siemens NX, Autodesk Inventor) | Data Analysis (MATLAB, Minitab) | Additive Manufacturing (FDM) | Coding (C#, C, C++, Java, Racket, Python, DSSSL2) | Figma | UX Design & Research | Website Design (Webflow, Wix) | Adobe Creative Cloud (Photoshop, Illustrator, Premiere, InDesign) | Microsoft Office (Word, Excel, PowerPoint) | Transferable (Problem Solving, Technical Writing, Oral Presentation, Prototyping, Leadership, Teamwork)

## **PROJECTS**

**ULIMI Tongue of Culture** (Design for America)

February - June 2024

- Conceptualized and drafted essential marketing assets (logo, website, color palette) for a nonprofit as part of a Design for America initiative
- Brainstormed business-to-customer (B2C) and business-to-business (B2B) marketing strategies to generate more leads and partnerships
- Developed and implemented a comprehensive marketing strategy, including press kit, paid campaigns, organic growth initiatives, and SEO optimization

**Funbrella** (Design Thinking & Communication)

March - June 2023

- Conducted market research to address issue of umbrellas failing easily in high winds, causing danger to others
- Prototyped a buffer attachable to any umbrella, consisting of a mesh outer ring, nylon center, and nylon strips down the sides, to strengthen structural integrity and make it less likely to flip at higher wind speed

**Retract-A-Wheels** (Design Thinking & Communication)

September - December 2022

- Addressed challenge of providing stability to a bicycle for a balance-impaired stroke victim
- Engineered stability wheels for extra support at initial acceleration that are retractable at user's will
- Directed a team of three students, delegating responsibilities across research, prototype development, and user testing

## **EXPERIENCE**

**ALLVAN USA, LLC** | La Vergne, TN

June - August 2024

*Engineering Intern*

- Constructed a CAD model for a van body, tailored to specific requirements of a new client
- Optimized catalog of manufacturing specifications within NetSuite to improve ease of access
- Performed MIG welding to fabricate and assemble van bases, ensuring structural integrity and adherence to project specifications
- Managed and maintained factory grounds to enhance overall productivity

**WAVELENGTH** | Evanston, IL

January 2023 - June 2024

*Design Editor*

- Collaborated with editors and writers of a music magazine published by Northwestern's student-run radio station to create visually appealing layouts for magazine's content utilizing InDesign and Photoshop

## **ACTIVITIES**

Co-President of The Setup, Northwestern's stand-up comedy club

Operations Chair of Design for America Executive Board, Northwestern Chapter