

# Ryan J. Murphy

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## **OBJECTIVE**

Highly motivated Manufacturing & Design Engineering student passionate about strategic design seeking a summer internship to leverage user research, prototyping, and product development skills to create impactful solutions.

## **EDUCATION**

**NORTHWESTERN UNIVERSITY** | Evanston, IL

B.S. Manufacturing & Design Engineering

Expected June 2026

Minors: Computer Science and Art, Theory & Practice

GPA: 3.80/4.00

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

*Relevant Coursework:*

Design Thinking & Communication I-II, Engineering Analysis I-IV, Mechanical Engineering, Electronics Design, Data Structures & Algorithms, Computer Integrated Manufacturing, User Experience Design, AI/Machine Learning

## **SKILLS**

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

## **PROJECTS**

**Amazon Music** (Bay Area Immersion Program)

January - March 2025

- Partnered with Amazon Music's product team to develop innovative community-building features for its platform
- Conducted 20+ in-depth interviews, identifying insights about social listening preferences and music sharing behaviors
- Iterated four Figma prototypes showcasing novel music sharing functionality, incorporating user feedback at each stage
- Presented strategic prototypes to Amazon Music executive stakeholders, effectively communicating research insights and user-centered design solutions that aligned with the platform's mission

**Step City** (Bay Area Immersion Program)

January - March 2025

- Conducted comprehensive interviews with active young adults aged 18-22, identifying key behavioral patterns and motivational barriers relating to fitness routines
- Created innovative fitness app that increased user engagement through gamification and clear progression milestones
- Presented functional prototype to industry professionals for feedback

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

February - June 2024

- Designed essential marketing assets (logo, website, color palette) for a Chicago-based nonprofit
- Implemented B2C and B2B marketing strategies, including press kit, organic growth initiatives, and SEO optimization to generate more leads and partnerships

**Funbrella** (Design Thinking & Communication)

March - June 2023

- 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

## **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
- Performed MIG welding to fabricate van bases, ensuring structural integrity and adherence to project specifications
- Optimized catalog of manufacturing specifications within NetSuite to improve ease of access

## **ACTIVITIES**

Operations Chair of Design for America Executive Board, Northwestern Chapter

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