Killian Miller

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606 13th Ave SE,
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Education

University of Minnesota, Twin Cities
College of Design

Product Design, Bachelor of Science
Graduated Dec 2024, GPA 3.45

Skills

Solidworks	Creo	Alias
Keyshot	Blender	Arduino
Photoshop	Indesign	Figma

Detail-oriented • Practical • Imaginative

Design Experience

- **Timpani Handles:** folding handle attachments that improve the ergonomics of moving timpani drums, Capstone

- **Accelerometer App:** made a prototype that charts live sensor data to a phone through BLE using MIT App Inventor and an ESP32 microcontroller; freelance for Fox & Tree, LLC

- **Leather Trumpet Case:** for Philharmonic Productions, develop a discontinued design with new aesthetic and mouthpiece pocket

- **Pantheon:** dinnerware set with tactile outer face designed with a Roman aesthetic, modeled and rendered in Blender

- **Berm:** portable and durable drip coffee maker designed for landscapers to bring on the job site, bulky aesthetic

- **Seat Caddy:** pockets on the side of a chair, multidisciplinary team project sponsored by Rockler

- **Match Official:** app prototype designed in Figma for connecting assignors with sports officials

- **Vatican Website:** redesigned the existing site with improved visuals and streamlined information architecture

- **Acclimation Station:** design research, acclimates plants in one spot before bringing inside for winter, reduces back and forth trips

- **Pulsar:** light-up towel dispenser with mid-century modern aesthetic designed for early intervention for youth with OCD

- **Maznet 1:** engineer, construct, and code a robot over a semester that moves a magnet through a maze using Arduino and 2 stepper motors

- **Maznet 2:** improve Maznet 1, more compact mechanism, incorporated IoT to allow user to control the magnet with Blynk app

- **Chevy Camaro Keyfob:** mimic the design language of a Camaro, surface-modeling in Autodesk Alias and rendering in Keyshot

- **Engineer League:** functional version of Rocket League in the sandbox game Space Engineers using "block coding"

- **Mini Chess Sets:** 4" x 4" crafted using hand painted laser cut pieces, over 40 made so far with many patterns & colors

Work Experience

- **Litter Crew Coordinator**   January 2025 - Present
  UMN Facilities Management, Minneapolis, MN
    Coordinate a small crew of student litter pickers, developing a plan to efficiently clean up priority areas on the UMN campus using a region map I designed, report graffiti

- **Instrument Case Design Intern**   July 2024 - December 2024
  Philharmonic Productions, Remote
    Work with a team of interns to design, prototype, and manufacture unique and protective cases for 1-4 trumpets