



Killian Miller

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19150 Deerfield Trail,
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Education

University of Minnesota, Twin Cities
College of Design

Product Design, Bachelor of Science
anticipated May 2024
GPA 3.45

Skills



Solidworks



Creo



Alias



Keyshot



Blender



Arduino



Photoshop



Indesign



Figma

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
- **Pantheon:** dinnerware set with tactile outer face designed for 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 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:** for overwintering tropicals, acclimates plants in one spot before bringing inside, reduces back and forth trips
- **Pulsar:** light-up towel dispenser with mid-century modern aesthetic designed for early intervention for youth with OCD
- **Ice Scraper Handle:** designed to mitigate ergonomic stress on the hands, functional model made with maple
- **Maznet 1:** engineer, construct, and code robot over a semester, moves a magnet through a maze using Arduino and 2 stepper motors
- **Maznet 2:** improve Maznet 1, compact mechanism, incorporated IoT to allow user to control the magnet with Blynk app
- **Chevy Camaro Keyfob:** mimic design language of Camaro, surface-modeling in Autodesk Alias
- **Engineer League:** functional version of Rocket League in the sandbox game Space Engineers using "block coding"
- **Mini Chess Sets:** 4" x 4" crafted using laser cut pieces and hand painting, many patterns & colors

Work Experience

- **Landcare Student Gardener** Oct. 2019 - Present
UMN Facilities Management, Minneapolis, MN
Manage campus landscape features for functional and aesthetic purposes, work in teams of 2-5 and independently
- **Referee, Assistant Referee** Apr. 2014 - Present
US Soccer, MN
Know and enforce the laws of soccer for youth leagues and tournaments, communicating with players and coaches, building assertiveness and leadership skills