

GARETT WILLIAM MORRISON

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WORK EXPERIENCE

Go Arena

Mechatronics Engineering Intern

📅 San Francisco, CA 📍 Jul 2021-Aug 2021

- Interned at fitness robotics startup.
- Assembled, programmed, calibrated, and troubleshot 12ft 600lb pull-testing rig using C++, Python, and Ubuntu for final unit testing on production line.
- Selected, purchased, and implemented laser cutter for prototyping components.

Fischer Engineering Design Center

Technician in Prototyping Center

📅 College Station, TX 📍 Aug 2019 - Present

- Operate and maintain professional laser cutter, 3D printers (Polyjet, SLA, and FDM), 3D foam cutter, and PCB equipment (mill and laser).
- Create and improve models for production using CAD.
- Improved machine efficiency with Lisp scripting.

New Braunfels Makerspace

Head Camp Counselor

📅 New Braunfels, TX 📍 May 2017- Aug 2019

- Created original curriculum and taught coding, 3D modeling, and robotics to campers.
- Operated 3D printers, CNC equipment, laser engravers, and other equipment.

Flynocerus Racing Drones

Shop Assistant

📅 New Braunfels, TX 📍 May 2017- Aug 2017

- Packed and shipped orders for start-up racing drone frame company.
- Represented company at events

SKILLS

- Project portfolio at garettmorrison.net
- Computational: C++, Python, Bash, Lisp, Arduino, Ubuntu
- Procedural generation of CAD files for art & design projects
- 2D and 3D modeling for 3D printers, laser cutters, foam cutters, and CNC routers

HONORS

- 1st Place at Howdyhack 2019 Hackathon

EDUCATION

B.S. in Engineering with Honors

Texas A&M University

📅 May 2023 📍 College Station, TX

- Mechatronics Major
- Computer Science Minor
- Embedded Systems Minor
- GPA: 3.4

High School Diploma

Canyon High School

📅 June 2019 📍 New Braunfels, TX

LEADERSHIP & ACTIVITIES

Noodle Crusade

Texas A&M; Founder, Organizer

📅 Oct 2019 - On Hold 📍 College Station, TX

- Organized 200+ person noodle-sword capture-the-flag events.
- Conceptualized, advertised, budgeted, and launched group.

TAMU Robobrawl Team

Texas A&M; Electronics Team Lead

📅 Sept 2019 - Present 📍 College Station, TX

- Designed entire electronics system for 30lb combat robot.
- Worked with design and fabrication team to design according to budget and weight constraints.

Budget Bots

Canyon High School; Founder, Organizer

📅 Aug 2018 - May 2019 📍 New Braunfels, TX

- Created robotics league.
- Designed and sold robot kits at cost, including Arduino microcontrollers, servos & RF transceivers

San Antonio BEST Robotics League

Canyon High School; Founder, Captain

📅 Sept 2018 - Oct 2018 📍 New Braunfels, TX

- Recruited and led team to design and construct a robot that balanced on a two-by-four and used an articulating arm.