GARETT WILLIAM MORRISON

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OBJECTIVE

Engineering summer internship designing, prototyping, and testing robotics systems.

WORK EXPERIENCE

Arena Innovation Corp.
Mechatronics Engineering Intern

📅 San Francisco, CA   📍 Jul 2021-Aug 2021

- Interned at fitness robotics startup.
- Independently assembled, programmed, calibrated, and troubleshot 12-ft, 600-lb 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).
- Provide design input and create prototypes for engineering labs working with experimental materials.
- 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.

SKILLS

- Project portfolio at garettmorrison.net
- Computational: C++, Python, Bash, Lisp, Arduino, Ubuntu
- Procedural generation of CAD files for art & design projects
- PCB Design and fabrication using KiCAD
- 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

LEADERSHIP & ACTIVITIES

SAE Formula Electric Team
Texas A&M; Low Voltage Team Member

📅 Oct 2021 – Present   📍 College Station, TX

- Working on fully electric vehicle for racing competition.
- Designing, implementing, and troubleshooting micro-controller based data acquisition system to record and visualize high fidelity sensor input.
- Iteratively prototyping steering wheel for controls, ergonomics, and data display.

Noodle Crusade
Texas A&M; Founder, Organizer

📅 Oct 2019 – Present   📍 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 – June 2021   📍 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

- Designed a custom robotics kit (including Arduino microcontrollers, servos and RF transceivers) and created robotics league.