

Paul Bessler

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EDUCATION

Bachelor of Science, Electrical & Computer Engineering, University of Texas **Expected Graduation: May 2025**
Concentration: Computer Architecture & Embedded Systems **Cumulative GPA: 3.8 | University Honors**

EXPERIENCE

Texas Inventionworks Student Technician, University of Texas **06/2022 – Present**

- Provide training, advice, and consultation to students and faculty on engineering projects
- Operate and repair a variety of manufacturing machines including 3D printers and laser CNC machines
- Assist with improvement projects such as mobile tool racks and id scanners for heavy machinery

IEEE Corporate Liaison, University of Texas **05/2022 – Present**

- Consolidate and maintain the organization's relationships with external corporate contacts
- Organize corporate sponsorship planning and event logistics for 20+ events throughout the year

Integrated Nano Computing (INC) Lab Assistant, University of Texas **01/2022 – Present**

- Develop neuromorphic computing systems using Domain Wall-Magnetic Tunnel Junction devices (DW-MTJs)
- Simulate devices in a spiking neural network and Boltzmann machine using Python
- Graph and interpret resulting data to develop insights on functionality and future improvement

Office of Diversity, Equity, and Inclusion Intern, St. Mary's University **06/2021 – 07/2021**

- Reviewed and recommended books and movies to promote DEI as part of a new campus initiative
- Gained new insight into the lived experiences of people of different backgrounds from my own

Guest Relations & Video Producer, Dance Center of San Antonio **03/2018 – 05/2021**

- Captured video content of classes, auditions, and promotional material
- Explored & selected new products to market to customers

PROJECT EXPERIENCE

Personal Portfolio Website (https://pwb574.github.io/Pauls_Portfolio/) **08/2022 – 08/2022**

- Created personal website to display completed projects and provide information about myself
- Hosted through GitHub Pages, Written in HTML and CSS

INC Lab Summer REU Researcher, University of Texas **06/2022 – 07/2022**

- Modeled stochastic computing using a Boltzmann Machine with Magnetic Tunnel Junctions
- Created and presented a research poster based on the resulting data (Available on LinkedIn)

Recreation of 2048 on the Texas Instruments TM4C, University of Texas **04/2022 – 05/2022**

- Designed and soldered a custom PCB using Eagle, Programmed in C++

Robotics and Automation Society (IEEE RAS) Robotathon, University of Texas **11/2021 – 11/2021**

- Designed, built, and programmed TM4C robot to follow lines and walls and launch ping pong balls

SEC Make-a-thon, University of Texas (Sponsored by Chevron) **10/2021 – 10/2021**

- Designed, fabricated, and pitched a prototype of a 2-in-1 mobile workstation to a panel of judges

SKILLS

Software: Python, C, C++, HTML, CSS, Arduino, Assembly Language, Git, Eagle, Visual Studio Code, LTspice, DaVinci Resolve, Autocad, Fusion 360, Microsoft Office

Hardware: Lathe, Bandsaw, Drill Press, Mill, Plasma Torch, Welder, 3D Printer, Laser CNC

ADDITIONAL INFORMATION

- **Selected For:** Hispanic Scholarship Fund Scholar, Rey Feo Scholarship **2022**
- Summer Research Grant Recipient, National Science Foundation, University of Texas **2022**
- Alpha Lambda Delta (The Honor Society for First-Year Academic Success) **2022**
- Phi Eta Sigma (National Honor Society for First-Year College Students) **2022**
- Institute of Electrical and Electronics Engineers Member **2021-Present**
- Texas Rock Climbing Member **2021-Present**
- Children's Ballet of San Antonio Volunteer Performer **2015-2021**