

# Paul Bessler

US Citizen | (210) 540-9637 | [paulwbessler@utexas.edu](mailto:paulwbessler@utexas.edu) | [linkedin.com/in/paulwbessler](https://www.linkedin.com/in/paulwbessler)

## EDUCATION

**Bachelor of Science, Electrical & Computer Engineering**, University of Texas      **Expected Graduation: Dec 2024**  
**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

**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

**Videographer and Video Producer, Children's Ballet Of San Antonio**      **06/2020 – 07/2020**

- Captured video content of rehearsals, productions, and other events
- Edited and produced promotional, marketing, and educational videos for public release

**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

**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 First-Year Case Competition, University of Texas (Sponsored by General Motors)**      **11/2021 – 11/2021**

- Presented a security software outline to improve General Motors' electric vehicle sales

**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, 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

## HONORS | ACCOMPLISHMENTS

- Hispanic Scholarship Fund Scholar      **2022**
- Rey Feo Scholarship Recipient      **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**
- 1st-place team, IEEE RAS Robotathon, University of Texas      **2021**
- 2nd-place team, SEC (Student Engineering Council) Make-a-thon, University of Texas      **2021**
- 2nd- place team, SEC First-Year Case Competition, University of Texas      **2021**