Jeffrey Nixon

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|US Citizen|

EDUCATION

University of Texas at Dallas, Bachelor of Science in Electrical Engineering Fall 2019 – Spring 2024

Minor in Computer Science

GPA: 3.7

Relevant Courses: Electrical Network Analysis, EE Laboratory in RF Circuits, Introduction to VLSI Design, Electronic Devices, System and Controls, RF Circuit Design Principles, Embedded Systems

References

Dr. Rashaunda Henderson
Professor of Electrical Engineering
rmh072000@utdallas.edu (972-883-6454)

Dr. Lawrence Overzet
Plasma Science and Applications Lab
overzet@utdallas.edu (972-883-2154)

TECHNICAL SKILLS

Languages: C++, Python, Java, Javascript, HTML, MIPS, Node.js, Verilog, MATLAB
OS/Tools: Linux, Git, LTSpice, Virtuoso, Innovous, Microwave Office, PSpice, Arduino, Rasbian
Attributes: Team Leader, Critical Thinking, Quick Learner, Creative

ACADEMIC PROJECTS

Basic ALU

- Monitored and maintained a group of 3 individuals, including myself, to complete each step of the project till the end.
- Designed an ALU capable of adding and subtracting in Verilog.
- Simulated the chip making process with Virtuoso and Innovous.

VR Tracking Glove

- Creating a glove that will be not only track the users hand in 3D space but allow for the tracking of individual fingers
- Designing with VR games in mind but coded with multiple other uses in mind such as Augmented Reality
- Utilizes TinyML on a raspberry pi to improve data collection and data transfer for decreased delay

SOCIETIES AND ORGANIZATIONS

Comet Robotics at UTD **May 2023-Present**

President

- Collaborated and worked with other students and student organizations to bring robotics back to the University of Texas at Dallas.
- Maintaining an environment that values the safety of everyone involved.
- Designed a combat robotics-based program to introduce freshmen to the idea of robotics with my team.
- Worked to ensure that robotics stays and grows at UTD.

UTD Makerspace **May 2022-Present**

Development Lead

- Maintained and operated an environment for student and student organizations alike to show off their creativity and technical skills.
- Providing students open access to services such as additive manufacturing.
- Proposed ideas to further improve the space and better suit the student body as an additional base of operations.

ECS Student Council

- Represented Comet Robotics and its student body in the ECS student council to maintain a leadership in the school.