

James Jenkins

james.jenkins745@protonmail.com | 972 – 740 – 7141 | Denton, TX

- EDUCATION** *University of North Texas*
Bachelor of Science: Electrical Engineering **2021 - 2024**
GradTrack - BS/PhD accelerated program
GPA: 3.6/4.0 - President's List, Dean's List
- PROJECTS**
- *Senior Design* **Fall 2023 - Spring 2024**
Designing a control system for two 48 VDC stepper motors and a 24 VDC actuator. Embedded microcontroller will control algorithms and programming.
 - *IEEE R5 Robotics Competition* **April 2023**
IEEE-UNT's Robotics and Automation team built, coded, and tested a ground robot and drone to communicate with each other to navigate an obstacle course autonomously.
 - *Library Database Management* **Spring 2022**
Over 1000 lines of C++ code for a final class project of a fictitious library
- EXPERIENCE** *Embedded Sensing and Processing Systems (ESPS) Lab* **September 2023 - Present**
Laboratory PI: Dr. Xinrong Li
- Research Assistant for: "Empowering Directional Communications with Hybrid Beamforming and Deep Learning", funded by Army Research Lab (ARL)
- SKILLS**
- Software:* Python, C/C++, Linux, GNU Radio, Circuit Simulators: MultiSim, Simulink, LaTeX, Vensim, TensorFlow, MATLAB, Altium, AutoCAD, Blender, MIPS
- Equipment:* Arduino, STM Nucleo-L476RG, NI Ettus USRP X310, Multimeter, Oscilloscope, Function Generator, Spectrum Analyzer, Logic Analyzer, Breadboard, Soldering
- LEADERSHIP** *Institute of Electrical and Electronics Engineers UNT* - **Secretary** **2023**
Robotics and Automation Society UNT chapter - **Vice Chair** **2022-23**
- AWARDS** *Southwestern Advantage:*
- **Gold Seal Gold Award** - Worked 80+ hours/week all summer **Summer 2022**
- IEEE-Eta Kappa Nu Honor Society* - **Lambda Zeta**
- INTERNSHIPS** *Research for Intelligence and Security Challenges (RISC) Intern* **May - August 2023**
Applied Research Laboratory for Intelligence & Security (ARLIS), University of Maryland
Faculty mentor: Dr. Hassan Salmani, Howard University
- Project WA: Policy Models for Enhancing the STEM Talent Pipeline**
- Obtained US security clearance
 - Researched ways the US federal government can influence K-12 STEM education
 - Modeled K-12 STEM pipeline using Vensim: a system dynamics modeling software
 - Graphically predicted an 11% positive increase in STEM students
 - Presented the findings to ARLIS community for the RISC Research Showcase
- Southwestern Advantage, Nashville, TN* **May - August 2022**
- Sales Entrepreneurial Internship**
- Independent contractor in direct sales of educational products
 - Executed ordering, inventory, accounting, scheduling, sales, and delivery of products
 - Prospected and approached over 2,600 families of various socio-economic backgrounds as potential clients
 - Personal retail sales of approximately \$20,000 in 12 weeks