Jackson Collins

Student majoring in Computer Science at the University of Texas at San Antonio
with a passion for low-level systems, robotics, and creative computing.

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EDUCATION

B.S. in Computer Science

UTSA College of Sciences

2024 - Ongoing

Courses

- Object Oriented Programming
- Data Structures
- Programming in C
- Discrete Math

Cyber Security Minor

UTSA College of Business

2024 - Ongoing

Courses

- Networking

WORK EXPERIENCE

Officer: Technical Representative

UTSA IEEE RAS ⬈

01/2025 - Ongoing

Achievements/Tasks

- Manage and maintain the RAS website
- Provide technical guidance and approval for proposed workshops
- Technical consulting

IEEE RAS Engineering Summer Camp

UTSA IEEE RAS ⬈

07/07/2025 - 07/11/2025

Achievements/Tasks

- Taught high school students engineering concepts
- Introduced students to circuits, EE, and Arduino
- Introduced students to UTSA and IEEE RAS

Internship

Institute for Computing in Research ⬈

07/2024 - 08/2024

A consortium of researchers, students, and teachers who work on pedagogical aspects of using advanced computing methods for research and scholarship.

Achievements/Tasks

- Transitioned BlackLight library from TensorFlow to PyTorch, modernizing it to allow for future development.
- Engineered a clean, documented codebase, streamlining onboarding for future collaborators.

SKILLS

Git Java Javascript Typescript C/C++ Go
Python Typst Odin Rust

PROJECTS

Desmos 3D ⬈ *(07/2024)*

This project converts STL files into a series of equations that can then be pasted into Desmos 3D ⬈ to render a 3D model.

Taught me how STL files are structured and allowed me to experiment with Desmos 3D, which was new at the time.

Mochi Cam ⬈ *(05/2025 - Active)*

A general purpose home internet camera system (WIP) utilizing multiple technologies including Go, Python, and NATS.

Home Lab ⬈ *(07/2025 - Active)*

Ongoing project to run my own local network using business class solutions, aswell at self hosting my own storage and services.

LANGUAGES

English (native) German (A1)

INTERESTS

Research Robotics Low Level Computer Vision
Data Science