Rick Hanish

rickrhanish@gmail.com

(972) 310-2690

github.com/RickHanish

EDUCATION

University of Texas at Austin – Bachelor of Science, Computer Engineering

Spring 2024

GPA: 4.0 / 4.0

Relevant coursework and experience:

- Python, C, C++, Java, MATLAB, Simulink, LaTeX
- Machine learning (LNN's, Transformers, GCN's)
- Embedded systems

- Circuit analysis and design
- Digital logic design
- Linear algebra
- Linear systems and signals convolutions, Fourier transforms, Laplace transforms

WORK EXPERIENCE

Dynetics, Sensor Systems Department – Software Engineering Intern

Summer 2022

- Developed transformer neural networks and graph convolutional networks in Python to discriminate between threats and non-threats in an interceptor system
- Translated Simulink model to C++ with 25x improved speed and greater interoperability with systems
- Documented research and work in a thorough LaTeX technical report

Peer-Led Undergraduate Study – Digital Logic Design Study Group Facilitator

Spring 2022

- Collaborated with a team of four other facilitators, a program coordinator, and a professor to review material and create an agenda for an official weekly study group
- Led a weekly study group for class guided the discussion among peers according to an agenda and ensured that every attendee was included

ACTIVITIES AND LEADERSHIP

Texas Rocket Engineering Laboratory

Spring 2022 – Present

- Avionics Software Team develop mission control software in Python to communicate with the rocket from the ground during flight
- Weather Balloon Test Team implemented hardware and Python to gather data about weather conditions used to guide the rocket

Tau Beta Pi Engineering Honor Society – Officer, Service Coordinator (Fall 2022)

Spring 2022 – Present

- Participate in fundraiser, alumni, social, professional development, and community service events
- · Coordinate all community service events for the chapter, collecting and reporting attendance at each

FEATURED PROJECTS

- Created UT-themed rock, paper, scissors game for Cortex-M microcontroller
- Programmed Monte Carlo simulator to predict outcome of combat in the board game Axis and Allies
- Designed program to generate and display randomized routes in the board game Ticket to Ride

HONORS AND AWARDS

• J.K. Aggarwal Endowed Presidential Scholarship in ECE

Fall 2022 - Spring 2023

• Tau Beta Pi Texas Alpha Chapter Outstanding Member Scholarship

Fall 2022

Tau Beta Pi National Scholar

Fall 2022 - Spring 2023

Cockrell School of Engineering Distinguished College Scholar

Spring 2022

ADDITIONAL INFORMATION

DoD secret security clearance

Last Active: Summer 2022