

Arnav Surjan

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EDUCATION

Bachelor of Science, Electrical and Computer Engineering

May 2025

The University of Texas at Austin

Overall GPA: 3.43 / 4.00

Minor: Entrepreneurship

Related Courses: Software Design & Implementation I, Intro to Embedded Systems, Digital Logic Design, Circuit Theory

WORK EXPERIENCE

First-Year Interest Group Mentor, University of Texas at Austin

Aug 2023 – Present

Austin, TX

- Steer 20-25 first-year Electrical and Computer Engineering majors through their first semester as UT Austin undergraduates

RTI Summer Engineering Intern, Texas Department of Transportation

May 2023 – Aug 2023

Austin, TX

- Expedited categorization of Texas public university research documents using OnBase and Microsoft SharePoint in the Research & Technology Implementation Division
- Streamlined design and process of manufacturing research project summarization documents using ChatGPT-3.5

PROJECTS

Save Simba, UT Embedded Systems Game Design Competition - 3rd Place

Apr 2023

- Developed a game in embedded C on an ARM-based TI microcontroller using interrupts, timers, DAC, ADC, etc.
- Created drivers for basic I/O, sprite animation, sound effects, etc.
- Designed and soldered custom PCB to house game I/O and TI microcontroller

ACTIVITIES

Treasurer, IEEE Robotics and Automation Society

Aug 2022 – Present

- Facilitate organization purchases and personal reimbursements for robot design and manufacturing across multiple committees
- Maintain budget for large student organization (150-200)

Controls Team Member, Longhorn Racing Solar

Aug 2022 – Present

- Developing Renode-based solar vehicle speed simulator to model Prohelion motor controller performance in tandem with Mitsuba motors using a PID controller
- Formulated program to interpret messages to and from Prohelion motor controller using semaphores and mutexes

SKILLS

Proficiencies: C/C++, Java, Python, Git, Verilog, MATLAB, Onshape, Autodesk Eagle, KiCad, Soldering

Certifications: Microsoft Excel, Onshape, MATLAB

Languages: bilingual English & Hindi

References available upon request