Arnav Surjan

Austin, TX
arnavsurjan@gmail.com | 516-590-9511
https://www.linkedin.com/in/arnav-surjan/

EDUCATION

Bachelor of Science, Electrical and Computer Engineering May 2026
The University of Texas at Austin GPA: 3.3 / 4.0

Minor: Entrepreneurship

Related Courses: *Operating Systems, Data Science Lab, Software Design & Implementation I & II, Algorithms, Intro to Embedded Systems, Digital Logic Design*

RELEVANT EXPERIENCE

Software Engineering Intern, Bell Flight Jun 2024 - Aug 2024
Arlington, TX
- Developed multithreaded C# & XAML application for displaying OFP Part Numbers for 12 unique Flight Control Computer processors
- Composed DXL script for cataloging high- & low-level requirements in Rational DOORS with missing in-links to requirements & tests

Controls Software Engineer, Longhorn Racing Solar Aug 2022 – Present
Austin, TX
- Engineered Renode-based solar vehicle speed simulator to model Prohelion motor controller performance in tandem with Mitsuba motors using a PID controller in C
- Developed C application to read and relay Prohelion motor controller status messages to the driver display, such as RPM, errors, etc.

RTI Summer Engineering Intern, Texas Department of Transportation May 2023 – Aug 2023
Austin, TX
- Expedited categorization of Texas public university research documents using OnBase & Microsoft SharePoint
- Streamlined design & process of manufacturing research project summarization documents using ChatGPT-3.5

PROJECTS

ChocoPad, Custom Wireless Macropad Aug 2023 – May 2024
- Developed Arduino program for customizing keys and LED backlights
- Designed & soldered custom macropad PCB for ESP32 microcontroller

Save Simba, UT Embedded Systems Game Design Competition **- 3rd Place** Apr 2023
- Developed game in embedded C on ARM-based TI microcontroller using interrupts, timers, DAC, ADC, etc.
- Created drivers for basic I/O, sprite animation, sound effects, etc.

OTHER EXPERIENCE

First-Year Interest Group Mentor, The University of Texas at Austin Aug 2023 – Dec 2023
Treasurer, IEEE Robotics & Automation Society Aug 2022 – Present

SKILLS

Technical: C/C++, Java, C#, Python, Git, DXL, Verilog, MATLAB, Onshape, KiCad, Soldering
Languages: Bilingual English & Hindi