



ANUJ CHANODIA

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EDUCATION

Bachelor of Science (BS) in Electrical Engineering and Computer Engineering

Expected Graduation: May 2029

University of Cincinnati, Cincinnati, OH

GPA: 3.6

- Relevant Coursework: Electronics I, Network Analysis, Programming for EECE, Signals & Systems, Semiconductor Devices
- College of Engineering and Applied Science International Outreach Scholarship, UC Global Scholarship & Dean's List

SKILLS

Altium Designer STM32 Cube IDE LTspice Xilinx Vivado MATLAB C C++ Embedded C Python KiCad
Autodesk Inventor Microchip Studio 3-D Blender Autodesk Fusion 360 LabVIEW Arduino IDE Microsoft Office 365

EXPERIENCE

Automation Intern

May 2026 – July 2026

HCLTech, Chennai, TN, India

- Designed and simulated a 1.6 kW three-phase interleaved synchronous buck converter (48 V→12 V, 500 kHz) in LTspice for an automotive EV auxiliary rail
- Developed a per-phase current-sense chain (1 mΩ shunt, ×50 amplifier, 58 kHz RC filter) and quantified a 4% peak-current under-read caused by filter attenuation

Electrical Engineering Co-op

Aug 2025 – Dec 2025

The Modal Shop, Cincinnati, OH

- Simulated analog and mixed-signal circuits in LTspice for active R&D projects and laid out multi-layer PCBs in Altium
- Performed containment testing on 140+ circuit boards, achieving 85.7% pass rate and ensuring product reliability
- Calculated Mean Time Between Failure (MTBF) for 104 discrete components to support product reliability analysis

Embedded Systems Intern

May 2025 - July 2025

A2C Automotive PVT LTD., Pune, MH, India

- Drafted schematics, routed PCB layouts, and validated circuit behavior in LTspice and KiCad
- Engineered a CDI ignition system delivering 36 kV output from a 12 V input without SCR components
- Programmed Arduino-controlled 32x8 WS2812b LED matrix for a sequential vehicle indicator and tailgate display

PROJECTS

Instagram Content Creation

Mar 2026 - Present

Personal Project

- Founded and run @built.byanuj, an engineering Instagram page where I design, build, and document personal projects.
- Grew the account to 22,000+ views and 7,290+ accounts reached, with 70%+ viewership from non-followers.

Custom ESP-32 board

Mar 2026 - April 2026

Personal Project

- Designed an ESP32-S3 board with dual USB-C ports, USB-UART bridge, and selectable 5V/3.3V power regulation in Altium
- Implemented ESD protection, voltage regulation, and GPIO breakout for prototyping applications
- Engineered GPIO breakout configuration for versatile prototyping applications

Zillow Property Scraper

May - Aug 2025

Personal Project

- Architected an automated web scraper using Playwright and Node.js to extract 200+ Cincinnati property listings with 95% accuracy
- Implemented anti-detection system with user agent rotation, browser fingerprint masking, and smart delay mechanisms
- Engineered robust error handling with retry logic, session management, and fallback strategies achieving 85%+ success rate

Arise – AR cards for studying

Mar 2025

Best AR project, Revolution UC Hackathon, University of Cincinnati, Cincinnati, OH

- Prototyped an ARUCO Marker using python and MATLAB to display 3-D educational content upon scanning it
- Integrated OpenCV & OpenCV Contrib to link 3-D content with ARUCO marker and developed an application for scanning it

Extracurricular Activities

Bearcats Electric Racing – Electronics Team Member

Aug 2026 – Present

Learning Assistant – Chemistry I

Jan 2026 – April 2026

CEAS Tribunal – Organizational Funding Chair

Aug 2025 - Present

Resident Advisor – UC Res, Ed & Development

Aug 2025 – Present

AVAILABILITY FOR CO-OP SPRING 2027 (JAN-APR)