

# Elijah Burr

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## EDUCATION

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**University of Illinois Chicago (UIC)**, Chicago, IL Expected: May 2028  
Bachelor of Science in Computer Engineering (Digital Systems and VLSI track) GPA: 3.36/4.0  
Minor in Mathematics

## SKILLS

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**Computer & Software:** C/C++, Tailwind CSS, Three.js, CasaOS, Immich, Plex, WordPress, ROS, Gazebo

**Technical & Hardware:** ESP32, Arduino, KiCad, Ngspice, LiDAR, PCB Design, 3D Printing/Modeling, Soldering, Circuit Simulation

**Professional:** Reliability, Attention to Detail, Adaptability, Flexibility, Team Leadership

## RELEVANT EXPERIENCE

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**Handshake AI Generalist**, Remote May 2026 - Present  
Freelance

- Work with evals to help train AI models (Project Headchog).
- Execute and manage multiple different task types to improve system outputs.

**UIC GPIP**, Chicago, IL July 2025 - August 2025  
Intern

- Worked with the Agilex Scout mini robot.
- Simulated the robot in an environment in Gazebo through ROS.
- Focused on understanding LiDAR and how it perceives an environment and different objects.

## PROJECTS

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**SAE BAJA**, UIC, Chicago, IL Fall 2025 - Present  
Electrical Lead & Vice Captain

- Leading the team to build the vehicle's electrical system from the ground up.
- Using an ESP32 as the brain, which provides sufficient power to collect data from various sensors and output useful information to the driver and crew.
- Designing and implementing the wire harness to connect all components together in a tidy manner.

**ESW PETBot**, UIC, Chicago, IL 2023 - Present  
Lead

- Leading my team in creating a device that cuts, melts, forms, and prepares filament from a used PET plastic pop bottle.
- Programming an Arduino Mega with a 3D printer kit to allow communication with the stepper motor, display, and controls.
- Problem-solving and calibrating the system for optimal speed and temperature.
- 3D modeling pieces so that the device can function more effectively.

**Engineers for a Sustainable World (ESW)**, UIC, Chicago, IL 2023 - Present  
Project Coordinator

- Overseeing and maintaining the ESW workspace in the Makerspace.
- Collaborating with project leads and the secretary to document project status and provide technical support as needed.
- Serving as an open resource for technical support to all ESW members.

## AFFILIATIONS

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<b>Society of Automotive Engineers, Baja Team</b> , UIC, Chicago, IL Member	Spring 2025 - Present
<b>Engineers for a Sustainable World</b> , UIC, Chicago, IL Member	Spring 2025 - Present
<b>COE Student Advisory Board</b> , UIC, Chicago, IL Member	Fall 2025 - Present
<b>UIC Club Lacrosse</b> , UIC, Chicago, IL Member	Fall 2024 - Spring 2024

## ADDITIONAL EXPERIENCE

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<b>Bergstein's NY Deli</b> , Homewood, IL Restaurant Cashier	January 2023 - Present
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- Greeted and assisted customers, addressing inquiries and offering details of menu items.
- Maintained a smoothly running restaurant by regularly restocking items and opening the restaurant for morning shifts.
- Worked with staff during closing shifts to clean and count the money drawers, preparing for the next day's opening shift.

<b>Idlewild Country Club</b> , Flossmoor, IL Golf Bag Attendant	August 2022 - October 2023
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- Provided members with assistance carrying their golf bags to their cars or carts and answered any questions.
- Worked with coworkers to set up and collect golf balls at the ranges, manage yardage, and prepare golf carts and bags throughout the day.
- Opened the Country Club by preparing all golf carts and storing golf bags for when members arrived.
- Handled closing procedures by cleaning clubs and carts, closing bathrooms, and managing garbage.