André de la Cruz

andredlcruz@uchicago.edu / +1 (773) 851-5172 / 5418 S Ridgewood Ct. Apt 2E

EDUCATION

University of Chicago	Chicago, IL
Bachelor of Science in Computer Science (Spec. Machine Learning)	Expected Jun 2026
Country Day School	Costa Rica
Honors: AP Scholar with Distinction, National Honor Society. GPA: (4.14/4.00).	Jun 2022

SKILLS

Computer: Experienced in Python (Django, PyTorch), C++, Computer Aided Design(CAD), Printed Circuit Board (PCB) Design

Other: Experience in fast prototype design and testing. Machine Shop experience: lathe, mill, water jet, CNC machining; 3D printing.

EXPERIENCE

UChicago Human Computer Integration Lab   Aug 2024 – Present
Researcher
- Author on the "Power-on-Touch" paper, which used induction to wirelessly power traditionally battery-powered devices.
- Designed and developed mechanical applications, including a self-opening box and a battery-less calling button, ensuring smooth functionality of their mechanisms.

Avea Robotics (Startup)   Nov 2024 – Mar 2025
Engineer
- Designed and built an autonomous industrial cleaning robot
- Won $15,000 in the College New Venture Challenge (CNVC) at UChicago

Corporate Engagement Office at the University of Chicago   Jun – Aug 2024
Content Specialist
- Responsible for corresponding with 60+ UChicago professors to make them more marketable to companies, creating customized profiles for all of them.
- Presented to several UChicago department heads strategy to form and nurture industry relationships.

Metcalf Symbiotic Internship   June – Aug 2023
Software Engineer
- Made a national real-estate database for a Costa Rican startup
- Used BeautifulSoup (web-scrapping) to get listings from around the country.

LEADERSHIP & ACTIVITIES

UChicago Robotics Team   Sep 2023 – Present
Mechanical Production Lead
- Lead team in the mechanical production of a 30lbs combat robot (produced and competed 2 robots so far)
- Designed robot/manufacturing schematics using Computer Aided Design.

MakeHarvard Hackathon   Feb 2025
- Made a wearable glove with imbedded flex sensors to control a 3-axis gantry.
- Designed and fabricated robot and glove in a 24hr timespan.

GoodFibes Consulting   Jan 2024 – Jun 2024
- Led a team of three people in doing market research for a startup.
- Developed a strategic report for early-stage startup, including an overview of current research, competitors, and interviews.

UChicago Space Program   Oct 2023 – July 2024
Avionics and Software Department – Communications Board Designer
- Participated in the development of a micro-satellite sponsored by NASA, to be constructed and sent into space in 2026.
- Responsible for the development of the communications printed circuit board.