

Harry Lopez

Houston, TX

832-410-5559 • harrylopez1320@gmail.com • www.linkedin.com/in/harrylopez7/

EDUCATION

University of Houston, Houston, TX

Graduated: December 2025 - Magna Cum Laude

Cullen College of Engineering - Bachelor of Science in Computer Engineering

Relevant Coursework: Advanced Microcomputer Networks, Digital Electronics, Embedded Systems, Sensor Applications, Microprocessor Architecture, Communication Circuits

EXPERIENCE

Lead Operations Manager - EZ Tree Service

May 2024 - Present

- Coordinated daily operations, project scheduling, and client communication for residential and commercial tree service projects
- Managed workflow organization, customer relations, and digital business support to improve service efficiency and customer satisfaction

Search Quality Rater - WeLocalize (Remote)

April 2024 - Present

- Analyze search queries to understand user intent and context. Evaluate the relevance, quality, and accuracy of search results and AI responses in relation to the provided guidelines.

Bilingual Interpreter - CyraCom International

June 2023 - August 2023

- Maintained message content, tone, and emotion as closely as possible.
- Consecutive over-the-phone interpretation, dealing with healthcare, financial, social, and emergency clients.

Supreme Welding Academy - Content Producer

June 2022 - August 2022

- Media director for welding videos, tutorials
- Editor and Social Media Coordinator

CERTIFICATIONS / SKILLS

Autodesk Inventor Certified User - Autodesk

May 2022

Introduction to Programming using Java - Microsoft Technology Associate

April 2021

Introduction to Programming using JavaScript - Microsoft Technology Associate

April 2020

PROJECTS

FETCH'R AI Helper Robot - Senior Project

Spring 2025 - Fall 2025

- Designing and building an AI-powered robotic assistant for elderly users, integrating bilingual voice recognition (ESP32-LyraT) with image detection (ESP32-CAM + OpenCV) to interpret spoken commands and locate household items.

Enterprise Logistics Network Simulation - Advanced Microcomputer Networks

Fall 2025

- Designed and simulated a multi-site enterprise logistics network in Cisco Packet Tracer, implementing routing, DHCP, VLANs, wireless connectivity, and mobile device communication with end-to-end testing and troubleshooting.

Advanced Traffic Light System - Semiconductor Devices

Spring 2024

- Improved traffic light system with enhanced features, including emergency vehicle prioritization and lane-specific traffic sensors to dynamically adjust signal timing. Integrated LCDs show countdown timers for drivers, improving traffic flow and safety.

TECHNICAL SKILLS

Programming Languages: C++, Java, Python, JavaScript, HTML, CSS

Databases & Tools: Cisco Packet Tracer, VSCode, Android Studio, Fusion 360, Arduino IDE, Microsoft/Windows Proficiency