

Christian Olguin

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Mechanical Engineering senior at Cornell University with a focus on mechanical systems design, reliability, and efficiency. Strong technical foundation in CAD modeling, finite element analysis, and mechanical system simulation developed through coursework and hands-on projects. Experienced in developing practical solutions, analyzing system performance, and collaborating across teams to deliver results in technical and fast-paced environments.

EDUCATION

CORNELL UNIVERSITY

BS in Mechanical Engineering, Minor in Business Administration

Ithaca, NY

GPA: 3.477

Graduation: May 2026

PROFESSIONAL EXPERIENCE

Amazon

Colorado Springs, CO

AMM

Summer 2025

- Designed and prototyped a fully integrated conveyor belt monitoring system that remotely tracks belt health and provides early warnings for failures, improving preventative maintenance and reliability across fulfillment centers.
- Performed root cause analyses on conveyor system issues and integrated research on market solutions with engineering judgment to develop new mechanical design improvements.
- Developed and tested custom sensor networks (strain gauges, HX711 ADCs, ToF sensors, photoreflective sensors, ESP32 microcontrollers) and created Bluetooth-enabled data pipelines for real-time system monitoring.
- Built a multifunctional dashboard to visualize sensor data, generate automated alerts, and support data-driven performance optimization.
- Authored a detailed technical white paper documenting system design, implementation, and testing to ensure continuity and future project development.

Micro Center

Houston, TX

General Sales

Summer 2022

- Averaged over \$2,000 per day in sales while providing efficient and knowledgeable assistance to a wide range of customers.
- Quickly mastered product stock, specifications, and compatibility to deliver fast, accurate solutions tailored to customer needs.
- Shared detailed product information and personalized recommendations, demonstrating strong customer focus and influencing purchasing decisions.
- Maintained up-to-date knowledge of current stock and alternative options to ensure customers always had a reliable solution.
- Named to Promoter's Club at first eligible opportunity for exceptional performance and customer satisfaction survey scores.

Skills

Mechanical Design & Analysis: Fusion360, SolidWorks, AutoCAD, Inventor, ANSYS, LabVIEW

Programming & Data Analysis: JAVA (6+ years), MATLAB, Python, JavaScript, C++, JMP, Excel

Prototyping & Fabrication: 3D-printing, stick welding, soldering

Leadership & Communication: JROTC leadership experience, cross-functional coordination

Certifications

Six Sigma Yellow Belt (CSSYB) – *Expected November 2025*

Quality Improvement Associate (CQIA) – *Expected December 2025*

Quality Process Analyst (CQPA) – *Expected January 2026*

Engineer in Training (EIT) – *Expected June 2026*