Jayson Mendoza

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CAD/PLM: SolidWorks**,** Catia, ENOVIA
Mechanical: 3D Printing, BOM, Soldering
Programming & Simulation Tools : MATLAB, Python, C, SQL

EDUCATION

The University of Texas at Arlington   **Expected Date: May 2027**

Honors B.S. in Mechanical Engineering | Minor in Business Administration
Member: Society of Hispanic Professional Engineers (SHPE), inSTEM, The Vertical Flight Society

WORK EXPERIENCE

Walmart   May 2024 - September 2024

Online Grocery Associate   *North Richland Hills, TX*

- **Accurately** processes customer orders in a **fast-paced environment** by locating, preparing, and packaging merchandise, verifying order accuracy before pickup, making appropriate product substitutions while **consulting with customers** to ensure satisfaction, and following up on out-of-stock items as needed.
- **Consistently ranked in the Top 5** out of approximately 70 colleagues in Average Pick Rate, demonstrating exceptional **speed and efficiency** by maintaining a sustained daily performance of **120+ picks per hour.** Proven ability to **meet and exceed productivity target**s in a fast-paced work environment.
- Maintained **merchandise presentation** by restocking and rotating products, removing damaged or expired items, setting up and organizing displays, ensuring accurate pricing and signage, inspecting merchandise for quality and freshness, and securing fragile or high-shrink items to **minimize loss** and enhance the shopping experience.

Best Buy   May 2023 - October 2023

Retail Sales Associate   *Hurst, TX*

- Exceeded sales targets by increasing **membership sign-ups** by **20%** through clear communication of benefits like exclusive discounts, free shipping, extended returns, and 24/7 tech support.
- Handled customer transactions across **cash, credit, and digital payments**, while providing **product recommendations** and promoting **warranties**, **services**, and **financing options**.
- Processed **50+ daily returns and exchanges** with **100% policy compliance**, contributing to a **95% customer satisfaction rating** from post-transaction surveys.

PROJECTS

Haptic Glove for Virtual Interaction | Work in Progress   July 2025 - October 2025
- Designed and fabricated a wearable haptic feedback glove using **flex sensors** and **vibration motors** to simulate tactile sensations in virtual environments.
- Integrated **Arduino microcontroller** with custom circuitry to process hand motion data and trigger haptic responses.
- Programmed system logic in **C**, enabling real-time mapping of finger movements to digital interactions.
- Collaborate cross-functionally with **electrical** and **software** teams to integrate sensor hardware and data visualization components.
- Writing documentation of design steps and system logic to support ongoing development.

Autonomous Tennis Ball Retrieval Robot | *SolidWorks, GD&T, COTS, 3D Printing*   January 2025 - May 2025
- Designed and built a robot using **Arduino** to autonomously capture a free-falling tennis ball and transport it 6 feet into a tray within 30 seconds.
- Created custom mechanical parts in **SolidWorks** with **GD&T-compliant** engineering drawings; fabricated components via **3D printing** and **laser cutting**.
- Integrated **COTS components** (gears, bearings, fasteners) for motion transmission and structural support, adhering to strict project constraints.
- Performed **motion simulation** and **stress analysis** to validate performance and ensure safe, repeatable operation without damaging the ball or the environment.

Robotic Project: Rod Retrieval Robot | *Sensor Calibration, EV3 Software, Mechanical Design*   October 2024 - December 2024
- **Led a team of five** in designing, building, and coding a **LEGO MINDSTORMS EV3** robot to retrieve and transport rods, demonstrating **strong leadership and collaboration skills**.
- **Developed and implemented code** using **EV4 software**, ensuring precise robot movements, alignment, and successful rod retrieval and placement.
- **Troubleshoot and optimize robot performance**, overcoming challenges with **Bluetooth connectivity, sensor calibration, and speed control** to improve efficiency and reliability.
- **Applied engineering principles and problem-solving skills** to enhance the robot's design, integrating **sensor-based navigation and mechanical stability** for successful task execution.