

# Jaden Morales



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## EDUCATION

**Stone Bridge High School, Ashburn VA - High School Diploma**

July 2022

## Work experience

**Robotics Systems Tester | MOLG**

December 2024 - Present

**Automated Testing:** Created a custom automated test harness for the internal software stack, integrating it directly into the CI/CD pipeline.

**Firmware Testing:** Developed C firmware for testing embedded systems. Created diagnostic tools and test scripts to stress-test PCB functionality.

**Manufacturing QA:** Performed quality assurance protocols for manufactured components, using custom-built diagnostic tools to ensure all components met engineering specifications.

**Presentations:** Organized testing data from automated and manual QA runs into structured Google Sheets, providing management with clear visibility into release readiness.

**Daycare teacher | Childtime daycare center**

March 2023 - March 2024

**Child Development Support:** Fostered a nurturing environment by implementing age-appropriate educational activities that promoted social, emotional, and cognitive development for children aged 0-5.

**Safety and Health Oversight:** Ensured the safety and well-being of children by maintaining a clean, organized, and hazard-free environment while adhering to health and safety regulations.

**Effective Communication:** Developed strong relationships with parents and caregivers through regular updates and discussions regarding child progress, needs, and behaviors, enhancing trust and collaboration.

## SKILLS

### Professional Skills

Ability to work effectively with team members to design, build, and troubleshoot technical systems.

Strong analytical thinking when approaching complex engineering challenges.

Comfortable learning new tools, technologies, and workflows as project requirements evolve.

Experience managing tasks and documenting work using ticketing platforms such as Jira.

### Technical Skills

#### Programming Languages

- C
- Python
- Java
- Rust

#### Embedded Systems

- Embedded C development
- RTOS development
- Microcontroller programming

## Electronics & Hardware

- Soldering and hardware rework
- Circuit design
- PCB design and layout
- Embedded hardware prototyping

### Target

October 2022 - February 2023

**Customer Service Excellence:** Delivered exceptional service by assisting customers with inquiries and product selections, ensuring a positive shopping experience.

**Inventory Management:** Collaborated with team members to maintain accurate inventory levels, conduct regular stock audits, and implement efficient restocking processes, contributing to improved product availability.

### Personal Projects

#### AI dog detector

June 2024 - September 2024

Designed and developed an embedded AI system capable of detecting dogs using the YOLO object detection.

#### Vex Robotics - Club team

September 2015 - July 2018

Created automation logic in 'RobotC' a C derivative for programming the PIC microcontroller.

Competed at the states level championship