

# Emma Johnson

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## Education

### University of Central Florida - Orlando, FL

Expected Graduation: Fall 2027

- Bachelors of Science in Civil Engineering

GPA: 3.2

- Relevant Coursework: Engineering Graphics (Solid Works), Differential Equations, Physics for Engineers 1, Physics for engineers 2, Geomatics, Intro to Transportation Engineering, Highway Engineering, Environmental Engineering

### Florida Atlantic University - Boca Raton, FL

- Associate of Arts Degree

### Scholarships and Academic Rewards:

- Bright Futures
- Deans List Spring of 2024

### NAI Intellectual Property Certification

- Acquired knowledge about America's intellectual property protection system, copyright law, and trademark law

Dec 2023

## Professional Experience

### Palm Beach County Water Utilities Department - West Palm Beach, FL

May 2025-Aug 2025

#### Intern

- Reviewed detailed asbuilt drawings and easement requests for accuracy, completeness, and compliance with municipal codes, utility standards, and permitting regulations.
- Prepared, submitted, and filed legal documentation to support infrastructure development, right-of-way acquisition, and permitting processes across multiple jurisdictions.
- Processed permit applications and coordinated directly with regulatory agencies, utility companies, and internal departments to ensure timely review and approval.
- Verified manhole and valve (MH&V) data lists against field reports and schematics to ensure accuracy and consistency within the GIS database and asset records.
- Integrated new projects and infrastructure modifications into GIS and our access data base to maintain accurate, current records for planning, analysis, and operations.

### Starbucks - Orlando, FL

#### Shift Supervisor

Apr 2021-Present

- Trained and supported new employees by teaching company policies, customer service standards, and operational procedures to ensure smooth integration and performance.
- Recognized twice as Partner of the Quarter for consistently exceeding performance goals and setting a strong positive example in service, leadership, and teamwork.
- Collaborated closely with coworkers to efficiently serve up to 60 customers through café and drive-thru during peak hours, maintaining speed, accuracy, and quality.
- Provided ongoing on-shift coaching and leadership to baristas, offering real-time feedback to support team development and enforce Starbucks standards and policies.
- Oversaw inventory management, placed supply orders, handled safe deposits and cash procedures, and closed the store while ensuring a clean, organized environment.

### Palm Spring Village Parks and Recreation - West Palm Beach, FL

#### Recreational Aide

Feb 2021-Apr 2021

- Recorded detailed park usage data to help maintain high-traffic facilities, assign appropriate oversight, and support planning decisions for future improvements.
- Instructed and chaperoned children ages 4-11 in organized team sports, promoting teamwork, physical activity, and positive behavior in a safe, engaging environment.
- Managed sports equipment inventory by tracking daily usage, identifying missing or damaged items, and reporting shortages for timely restocking and replacement.
- Supervised construction of new facility courts to prevent vandalism, monitor contractor activity, and document the ongoing progress toward project completion.
- Performed administrative office duties including scheduling park reservations, organizing internal paperwork, and updating public notices for community awareness.

### The Tropical Ice Shack - Palm Springs, FL

#### Manager

Feb 2019-Mar 2020

- Managed front-line employees to ensure quality customer service, efficient workflow, and a clean, organized work environment that met daily operational goals.
- Handled company funds responsibly by tracking transactions, securing store profits, and overseeing accurate payment distribution to all employees.
- Maintained product quality by regularly checking for expired food items, properly dating new inventory, and ensuring rotation practices met health standards.
- Scheduled, contacted, and coordinated with local businesses to vend at special events, managing logistics and ensuring vendor needs were effectively met.

## Projects

### Arduino Robot Car and Popsicle Stick Bridge

Aug 2023-Dec 2023

- Uploaded and tested custom C code to program line-following sensors, ultrasonic distance modules, and wheel motors for autonomous vehicle navigation.
- Wired and soldered all electrical components to an Arduino microcontroller, ensuring proper voltage, signal connections, and overall hardware functionality.
- Constructed a structurally sound popsicle stick bridge to precise dimensions, designed to support the full weight of the autonomous vehicle during operation.
- Successfully demonstrated the car's autonomous capabilities by having it follow a visual line and traverse the bridge without manual control or assistance.

### Remote Control Submarine

Oct 2023-Nov 2023

- Competed against eight other student teams and earned 1st place for designing the fastest and most efficient submarine to complete the underwater course.
- Assembled a functional underwater submarine using PVC pipes, pool noodles, propellers, motors, and a microcontroller to navigate an aquatic obstacle course.
- Connected and soldered motor wiring to the microcontroller, waterproofed all dry components, and ensured reliable electrical performance during submersion.
- Collaborated with a multidisciplinary team of engineering students to design, build, test, and present the submarine as part of a hands-on competition project.

## Involvement and Community Service

### Forest Hill Elementary School

Aug 2022-May 2023

#### Volunteer

- Volunteered three times weekly at an elementary school, reading children's books to kindergarten students to support early literacy development.
- Engaged young learners by making reading sessions fun and interactive, fostering enthusiasm and confidence in their reading skills.
- Assisted children in improving their vocabulary, comprehension, and pronunciation through one-on-one and group reading activities.
- Created a positive and encouraging environment that motivated students to enjoy books and develop a lifelong love of reading.

### Jupiter Beach

Aug 2022-May 2023

#### Volunteer

- Participated in monthly beach cleanups at Jupiter Beach to help preserve the natural environment and protect local wildlife.
- Collected and properly disposed of litter and debris, contributing to the overall cleanliness and sustainability of the coastline.
- Worked collaboratively with other volunteers to cover large areas efficiently and promote environmental stewardship within the community.
- Supported conservation efforts by raising awareness about pollution and the importance of maintaining clean, safe public spaces.