

Andrés Espinosa

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EDUCATION

University of Florida (B.S - Industrial and Systems Engineering - Honors Program) **Gainesville, FL**
Economics Minor *May 2025 (B.S) May 2026 (M.S)*
Sales Engineering Minor *3.87/4.00 GPA*

PROFESSIONAL EXPERIENCE

Teaching Assistant **Gainesville, FL**
University of Florida *April 2022 - Present*

- EEL3003(Circuits), ESI3215C(Stats), ESI4313(Operations Research 2), ESI4610(Data Analytics 1)
- Hold office hours weekly to improve students' understanding of fundamental engineering concepts
- Create lesson plans and hold guest lectures to supplement course learning

Supply Chain Hair Care Planning Intern **Cincinnati, OH**
Procter & Gamble *May 2024- August 2024*

- Led a \$9M service recovery through optimized inventory settings and proactive resource allocation
- Developed BI tools with KNIME, Python, and PowerBI to save over 1,000 labor hours per year
- Fine-tuned a large language model on company information for internal supply chain usage
- Developed a SKU allocation optimization model to streamline critical supply chain paths

Undergraduate Research Assistant **Gainesville, FL**
Industrial and Systems Engineering Department *May 2023 - May 2024*

- Built optimization models using Python and optimization library openrouteservice and NumPy
- Collaborated with teams to formulate objectives and constraints based on business requirements
- Applied optimization techniques to algorithmically solve large-scale logistics routing problem

Energy Analyst I **Gainesville, FL**
City of Gainesville - Energy and Business Department *February 2023- November 2023*

- Analyzed SAP utility datasets to identify areas of optimization and efficiency improvements
- Developed quarterly presentations to groups of 10-20 employees on efficiency programs
- Enabled time savings of 654 hours for a team of 5 under imminent deadline
- Utilized strong communication skills to empathetically provide customer solutions

Tutor, Team Instructor, Math Tutor **Hybrid**
Self-Employed, Mathnasium of Palmetto Bay, Math Monkey of Pinecrest *October 2019 - June 2023*

- Utilized a wide variety of student-centric tutoring tactics to maximize academic and personal growth
- Designed and execute tailored lesson plans in order to fill in any gaps in the students' education

PROJECTS

Midi Crusher *Completion Month: Spring 2024*

Python package built to intelligently cluster and filter MIDI instruments for integration with pre-trained recurrent models. Package was tested on a TensorFlow custom architecture and Microsoft's Museformer

Non-Profit Decision Analytics *Completion Month: Spring 2024*

Improved the logistics process and distribution strategy of a local Gainesville non-profit food bank. Built back-end transportation optimization software and integrated with the front-end React team.

Backing Track Generator *Completion Month: December 2022*

Created a Python API that develops a stochastic musical accompaniment including drums, a bassline, and a harmonic composition.

HONORS, SKILLS, AND LEADERSHIP

- **Awards:** 2024 H.S.G Scholarship, 2024 ISE UG Poster, 2023 AI Days Finalist, 2021 UF Honors
- **Music:** Experienced guitar player and composer
- **Languages:** English (Fluent), Spanish (Non-technical fluent), Portuguese and French (intermediate)
- **Programming Languages:** Python, Visual Basic, Ruby, JavaScript, SQL, MATLAB, LaTeX
- **Mastered softwares:** PowerBI, KNIME, SIMIO, Microsoft Excel and Office, and SAP
- **Certifications:** Six Sigma Green Belt and Project Management certified
- **Leadership:** Audio Engineering Society Software Lead, ISE Ambassador