Andrés Espinosa

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EDUCATION

Erasmus Mundus in Sustainable Systems Engineering **France, Italy, Albania**
M.S. in Computer Engineering and Sustainable Systems 2025-2027
Advanced Optimization of Systems

University of Florida **Gainesville, FL**
B.S. in Industrial and Systems Engineering 2021-2025
Economics and Sales Engineering *Summa Cum Laude*

PROFESSIONAL EXPERIENCE

Warehouse Operations Intern **Cincinnati, OH**
Procter & Gamble *May 2025- August 2025*
- Create a new cost tracking system to improve warehouse cost visibility across the organization
- Lead a Loss Elimination cycle to root cause, quantify, and solve a major warehouse shipping loss
- Collaborate cross-functionally to facilitate cost savings design projects with a $300M opportunity

Supply Chain Planning Intern - Hair Care **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

Teaching Assistant **Gainesville, FL**
University of Florida *April 2022 - April 2025*
- EEL3003 - *Circuits*, ESI3215C - *Statistics for Industrial Eng.*, ESI4313 - *Operations Research II*
  ESI4610 - *Data Analytics*, EIN4343 - *Inventory & Supply Chain*, ESI4611 - *Machine Learning*
- Built exceptional knowledge of engineering curriculum through 1,540 hours of instructional support
- Created lesson plans, held guest lectures, and office hours to supplement student course learning

Undergraduate Research Assistant **Gainesville, FL**
Industrial and Systems Engineering Department *May 2023 - May 2024*
- Built multi-vehicle transportation optimization model using Python, 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

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.

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, Florida Project Management
- **Leadership:** ISE Ambassadors Lead Chair, Audio Engineering Society Software Lead