HUGO RODRIGUEZ

E: hugorodro@ufl.edu | **P:** (786) 366-9421 | **A:** Gainesville, FL 32601

LinkedIn: www.linkedin.com/in/hugo-rafael-rodriguez | **Personal Website:** hugorodro.github.io

PROFESSIONAL OBJECTIVE

Combined degree M.S. & B.S. student with a mindset of continuous improvement. Pursuing full-time or graduate-intern positions with exposure in data science, optimization, technology consulting, and / or process improvement.

WORK HISTORY

Lunacon Construction Group, Inc. – ***Industrial Engineering Intern / Software Developer***
Miami, FL
03/2020 - 08/2020

- Conducted financial investigation to uncover cause and address $30,000 of unprocessed change orders for a Broward College construction project by comparing project pay requisitions, outstanding payments, and email threads between previous employees and subcontractors.
- Reviewed submittal processes, identified areas improvement areas, and reported problem areas to management. i.e. Lack of standard titling in project management software made submittals difficult to track. This led to lack of follow-up and submittal completion delays.
- Designed & coded internal cost control mobile-app & Rest-API for overhead expenses using AWS, Django (Python), Flutter mobile (Dart), Docker. Ongoing.

Laundr, LLC. – ***Industrial Engineering Intern***
Gainesville, FL
08/2018 - 02/2019

- Reviewed pickup/delivery algorithm and counseled leadership on adjustments; i.e. Dijkstra's Shortest path to increase routing efficiency.
- Created Excel models of vehicle routing for pricing strategy. Updated and presented models for Gator Hatchery (UF incubator) progress meetings.
- Coded 5 Xamarin screens on the currently active mobile application.
- Contributed to return package design using SolidWorks (CAD) while considering cost, material reliability, space efficiency, and mobility.

PROJECTS

- **Senior Design:** Risk assessment, cost analysis, and process mapping comparing 3 hemostasis management devices for the Point of Care Department at Shands Hospital.
- **Web-DSS**: Generated insights about "swing counties" from a nation-wide gun-violence data. I was responsible for M.S Access database and K-mean clusters (Python & Scikit-Learn).
- **DSS:** Designed and coded (VBA) an Excel-based Forecasting & Scheduling tool for a 5-plant manufacturing system. I was responsible for "back-end" object creation, data access, and UI accessible functions.
- **Kaggle:** 90% plus accuracy predicting titanic passenger survival after preprocessing. Used a logistic regression classifier. Code in Python.

EDUCATION

University of Florida
Gainesville, FL

M.S & B.S. Combined Degree:
Industrial & Systems Engineering

- M.S. GPA: 4.00, Expected Dec. 2021
- B.S. GPA: 3.19, Expected Dec. 2020
- **Graduate Courses To-Date:** Manufacturing Management (Lean), Fundamentals of Machine Learning, Web Decisions Support Systems, Models of Supply Chain

SKILLS

- **Process improvement:** Modeling (5/5), Lean environments (5/5), Root cause analysis (5/5)
- **Programming:** Python (5/5), VBA (5/5), Dart (4/5), R (3/5), SQL (3/5), Html/CSS (3/5), C (3/5)
- **Software / Frameworks:** Excel (5/5), PyTorch (4/5), TensorFlow (4/5), Flutter (4/5), Django (4/5), PostgreSQL (3/5), AWS EC2 & RDS (3/5), Docker (3/5)
- **Interpersonal Skills:** Teamwork (5/5), Conflict Resolution (5/5), Leadership (4/5), Presentation (4/5)

ADDITIONAL INFORMATION

- **Bilingual**: English & Spanish.
- **Accomplishments**: WUBCC Consulting Case Winner 2019, Big Idea Competition Participant 2019, Dean's List Spring 2019.
- **Certifications**: Associate - Mechanical Design (SolidWorks CAD)
- **Affiliations**: Society of Hispanic Engineers, Tau Epsilon Phi