Hugo Rodriguez

hugorodro@ufl.edu❖(786) 366-9421❖Gainesville, FL

EDUCATION

B.S., Industrial & Systems Engineering   **Expected Graduation Date: December, 2021**
University of Florida, Herbert Wertheim College of Engineering
Gainesville, FL

- **Relevant Course Work:** Operations Research 1 & 2, Statistics Theory, Computer Programming (VB.net), Decision Support Systems (DSS), Web DSS (Graduate), Supply Chain (Graduate), Industrial Simulation.

SKILLS

- **Services and Tools:** Amazon Web Services, CAD (SolidWorks certified), Advanced Excel, Microsoft Office Suite, Arena Simulations, Gams, GitHub, Django Web Framework, Flutter.
- **Programming Languages** Python, Dart, R, SQL, VBA, VB.NET, HTML, CSS, MATLAB.
- **Languages:** English and Spanish (FLUENT speech/read/write).

WORK EXPERIENCE

Process Engineering and Software Developer, Lunacon Construction Group, Inc   **March 2020 – Present**
Miami, FL
- Designed and implemented a mobile application to funnel orders and administrate internal purchases.
- Build AWS cloud infrastructure, Rest API , and administration website to handle request from the mobile application, as well as monitor purchases over time.
- Main programming languages are python and dart.

Process Engineering Intern, Laundr, LLC   **August 2018 - May 2019**
Gainesville, FL
- Created Excel simulation of on-demand laundry delivery service.
- Researched routing methods (Dijkstra's Shortest Path and Vehicle Routing Problem) for the most efficient pick-up/drop-off paths of laundry orders to achieve a 20% profit margin.
- Implemented UI changes across 15 screens of existing Xamarin app and moved infrastructure to AWS, enriching the experience of customers and developers.

PROJECT EXPERIENCE

- **Decision Support Systems:** Conducted a risk assessment for HMS systems at the Shands Hospital Point of Card department.
- **Web Based Decisions:** Analyzed gun violence data in "swing counties" from the perspective of a political consultant using python, a machine learning library, MS Access, and MS Excel.
- **Simulations:** Modeled a local gas station and created an Arena simulation to determine how utilization of pumps could be improved.
- **Kaggle Project:** Analyze likely titanic survivors based on a variety of qualities by dataset cleaning and logistic regression.

COMPETITIONS

Big Idea Comptition   **January 2019 - April 2019**
Gainesville, FL
- Designing/programming parts of basic UI for an hair appointment on-demand/reservation application.
- Authored 70% of a 10,000-word business plan to compete for $25,000 dollars.

WUBCC Consulting Case   **April 1st, 2019 - April 12th, 2019**
 Gainesville, FL
- Placed 1st, winning $200 dollars in cash prizes for the University of Florida.