Hugo Rodriguez

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EDUCATION

B.S., Industrial & Systems Engineering   **Expected Graduation Date: May, 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), Industrial Simulation.

SKILLS

- **Proficient:,** Python, VB.net, VBA, Excel (Complex), CAD (SolidWorks Certified), GAMS, SQL, ARENA, R
- **Familiar:** React Native, MatLab, Github, Amazon Web Services
- **Languages:** English and Spanish (FLUENT speech/read/write)

WORK EXPERIENCE

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.

Junior Project Management Intern, **Lunacon Construction Group, Inc.**   **May 2018 – August 2018**
Miami, FL
- Compiled project data and estimated figures with project management & accounting software.
- Conducted a market analysis of growth sectors such as: healthcare, education, and office construction.
- Served as first point of contact with subcontractors & vendors.

RESEARCH

Machine Learning and Wearables Research with Dr. Boyi Hu   **June 2019 – Present**
- Comparing the accuracy of machine learning algorithms in analyzing human gait.
- Retrofit CNN, Gradient Boost, and Forrest algorithms in python.
- Proofreading documents to promote a better reading experience.

PROJECT EXPERIENCE

Decision Support Systems   *July 2019-August 2019*
- Workout with peers to create an excel program to optimize scheduling inventory and forecast demand.
- Worked in an AGILE environment using TRELLO.
- Programmed all object classes and 50% of functions in Excel VBA.

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**
- Placed 1st, winning $200 dollars in cash prizes for the University of Florida.