JOEL MONTANO
UNDERGRADUATE RESEARCHER

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in joelmontanoucf
⌂ Joel430

Skills

PROGRAMMING LANGUAGES

Python
C
HTML
CSS
Javascript
Java

SOFTWARE

Visual Studio Code
Git
Anaconda
Spyder
CodeBlocks
MatLab
Microsoft Office Suite
Adobe Suite

OTHER

Bilingual (English & Spanish)

Education

University of Central Florida   Aug. 2015 to Current
B.S. Civil Engineering 2020
Minor Computer Science 2020
GPA: 3.5

Employment

University of Central Florida   Orlando, FL
Undergraduate Researcher   Nov. 2018 to Current
- Applied Machine Learning clustering methods (K-means) to model storm-surge data and identify any correlation between storm strength and max storm-surge.
- Utilizing linear regression and clustered data to determine the most influential component of storms that contributes to max storm-surge height.
- Implemented algorithms with Python 3.7 and libraries such as Pandas, NumPy, and SciPy.
- Collaborated with my faculty advisor to advance the research and implement new lesson plans.

Lane Construction   Orlando, FL
Engineering Intern   May 2018 to Aug. 2018
- Field Engineer on the $2.1 billion I-4 Improvement project, assisting the project engineers and project managers.
- Drafted technical reports that detailed the tasks that the foreman and crew had to accomplish daily, related to project scope, schedule, and design drawings.
- Tracked, logged, and charged invoices for sub-consultants and third-party services.
- Co-led weekly cost meetings where production, labor, quantity, and costs of the project were discussed with the superintendents, engineers, and project managers.

Awards

University of Central Florida · Dean's List (Multiple Semesters)   Jan. 2016
GPA of 3.5+ for the semester

Activities

Society of Hispanic Professional Engineers ·   Jan. 2016 to
Executive Board Member, Director of Freshman Affairs   May 2016
- Voiced concerns to the board and implemented solutions regarding divides between upperclassmen and underclassmen.
- Increased freshman and sophomore retention rates by organizing events catered to underclassmen, reducing any intimidation of events being too technical or advanced.

Society of Hispanic Professional Engineers ·   Aug. 2016 to May
Executive Board Member, SHPE Jr. Chair   2017
- Established SHPE Jr. chapters at three local high schools to promote STEM in underrepresented communities.
- Organized the SHPE Jr. conference where 50 local K-12 students attended to learn about STEM and attended workshops by industry professionals.

Society of Hispanic Professional Engineers ·   Aug. 2017 to May
Executive Board Member, Event Chair   2018
- Planned social events and the end of year gala to increase member retention and keep morale of the club high.
- Organized E-board and member meetups, to increase transparency within club operations and establish closer relations with the board.
- Budgeted and raised $4,000 for the year for all our events and gala.