

David A. Perez

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CAREER OBJECTIVE

Graduated from my bachelor's in Mechanical Engineering in May 2021. Pursuing a master's degree at FIU in Mechanical Engineering. Focusing on robotics and manufacturing to strengthen my coding and problem-solving skills. Looking to further explore internships or job opportunities that promote teamwork and innovative design and manufacture of devices or robots.

EDUCATION

FLORIDA INTERNATIONAL UNIVERSITY, Miami, FL

Master in Mechanical Engineering, May 2023

- GPA: 3.89.
- Research assistant working on Autonomous Asphalt Laying Machine.
- Analyzed vibration response of several systems using MATLAB.
- Learning programming languages such as Python and C++ and building code for ball tracking and path following.
- Leading undergraduate senior design team to manufacture the asphalt laying machine.
- Using Abaqus to simulate behavior of bar elements.
- Learning Robot Operating System to apply on autonomous driving for senior design team.
- Implementing CV libraries using C++ to include vision for the senior design team.
- Learning Linux command line to use with ROS.

JACKSONVILLE UNIVERSITY, Jacksonville, FL

Bachelor of Engineering in Mechanical Engineering, May 2021

- GPA: 3.71 and making Dean's list since 2017.
- Learned microcontroller programming, 3D printing (200 + hours), basic machine shop equipment (CNC, Bridgeport, Lathe, table or vertical saw, and manual tools).
- Designed a PV/T cooling system that stores excess energy for Fluid Dynamics.
- Searched and generated possible conceptual solutions to improve future knee brace and selected the best one according to determined criteria for Manufacturing.
- Worked on a health screening device for COVID-19 that was presented in NCUR on spring 2021.

CORE COMPETENCIES

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| • Communication | • Leadership & Teamwork |
| • Detailed and Organized | • Product Design |
| • Impact and Influence | • Process Improvement & Problem Solving |

PROFESSIONAL EXPERIENCE

EASTERN ENGINEERING GROUP, Doral, FL

Engineer intern, May 2020 – July 2020

- Got assigned with new projects from clients.
- Interacted with those clients to generate a well detailed proposal with drawings.
- Calculated the different loads of the structures drawn to ensure the system worked.
- Completed the proposal and calculations and sent them to my supervisor.

AutoCAD drafter, May 2019 – July 2019

- Performed research in critical new set of skills in AutoCAD for the company (Dynamic Blocks).
- Educated employees on the use of the new set of skills.
- Implemented the research in new projects improving the efficiency of the work.

AutoCAD drafter, May 2018 – July 2018

- Provided support to administrators and employees.
- Assisted in daily office needs and managing general administrative activities.
- Improved AutoCAD knowledge and executed basic level tasks.

ADDITIONAL SKILLS

- Bilingual Spanish and English. Speak and write both languages fluently.
- Proficient in Microsoft Office, AutoCAD, SolidWorks and Fusion 360. Also, knowledge of Mathcad, Ansys, LabView, MATLAB.
- Programing in C++ and Python.
- Robot Operating System.
- Captain of the Jacksonville University Sailing Team 2020-2021.