LEONARDO A. VARGAS

CONTACT

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XXXXXXX, XX

SKILLS

- AutoCAD 2020
- Microstation V8I
- SolidWorks
- Microsoft Office Suite Programs
- Python

EDUCATION

Bachelor of Science in Mechanical Engineering

Florida Polytechnic University

2017-2021

Bachelor of Science in Computer Science

University of Central Florida

2024-Present

WORK EXPERIENCE

Substation Engineer I

Leidos — January 2023 - Present

- Proficient with AutoCAD, MicroStation V8I, and Microsoft Office Suite programs.
- Created & updated design documentation, bill of materials, plan drawings such as three-line diagrams, substation layout plans, sections and detail drawings, and telecommunication wiring diagrams.
- Designed equipment installation ranging from 15kV to 115kV.
- Met with power company clients & subcontractors at substations for project package handoff.
- Peer-reviewed project packages and performed/attended Technical Challenge Review meetings for various projects.
- Performed site walk-downs post-construction to confirm equipment ratings & update substation three-line schematics.

CAD Designer

Leidos/Aerotek — Jun 2022 - January 2023

- Collaborated with engineers in updating protection and control schematics drawings & utilizing client standards.
- Prepared a printed set and shipped them to their respective project sites.
- Met with Power Company Clients at Substation Site visits for the start of project scoping and planning and visited once more after construction to prepare an as-built package of the substation.

REU HYPER Research Intern

The University of Central Florida — Summer of 2019

- Programmed a model of crack growth propagation in simulated light using Python to improve the management and prognosis of aircraft inspections.
- Refined upon previous research by implementing weather patterns and effects of pollution to generate realistic data.
- Presented findings in a formal poster presentation and conference.

PROJECTS

Substation Physical Security (TPS) — August 2024 – Present

- Designed sub-physical & telecom installation packages for various security.
- cameras & sensors to several substations in the Florida region.

Condition Based Monitoring (CBM) — October 2020 - Present

- Designed and peer reviewed various condition-based monitoring (CBM) installation packages.
- Designed around physical & technical constraints involved with each CBM installation unique to each transformer.

General Low to High Voltage Equipment Installation — November 2022 – Present

- Designed various equipment replacement packages: manual & motor-operated switches, breakers, neutral reactors, rigid & strain buses, station service, and transformers.

Capstone: Thermoregulatory Transport Device for Biologics — August 2022 - May 2021

- Collaborated with fellow engineering students in prototyping a specialized refrigerated unit to transport of centrifuges between the lab and the user.
- Drafted a 3D model concept incorporating team members' ideas, revising the design for several iterations in SolidWorks.
- Computed the heat transfer of the device using ANSYS FEA.