

Nicolas Dominguez

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Objective

Results-driven Controls Engineer with a proven track record of success, seeking a challenging technical role that applies my expertise in PLC systems, electrical engineering and automation to drive business growth, improve process efficiency and enhance overall system performance.

Education

- **University of Florida:** Bachelor of Science in Chemical Engineering, 2016-2019
 - **John Cabot University:** Liberal Arts and Sciences, 2015
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Experience

Ameresco

Controls Engineer, Jun 2024 - Present

Job Summary

- Serve as a Controls Engineer for Ameresco, working on energy efficiency and renewable energy projects
- Develop and implement innovative control solutions to optimize energy usage and reduce carbon footprint
- Collaborate with cross-functional teams to design, install and commission control systems for various applications

Key Responsibilities

- Create detailed Visio control engineering and MEP drawings for Hospitals and school districts
- Install, configure and manage BAS servers to optimize system performance
- Utilize Reliable Controls expertise, including RC Studio and RC Toolkit, to develop and implement control strategies
- Design and deploy virtualized solutions using Windows server and Azure, ensuring scalability and flexibility
- Develop controls sequences for HVAC BAS applications and maintain technical documentation for control systems

Technical Expertise

- Proficient in Visio control engineering and MEP drawing development
- Experienced with BAS server installation, configuration and management
- Strong understanding of Reliable Controls systems, including RC Studio and RC Toolkit
- Familiarity with virtualization of server technologies and IS, including Azure, Oracle, Windows Server
- Knowledge of industry standards and protocols (e.g., BACnet, Modbus)

Ruffini Engineering Services, Denver, Colorado

Structural/MEP Engineering Director, Sep 2023 - Apr 2024

Technical Expertise

- Spearheaded structural engineering design, leveraging AutoCAD expertise to deliver precise drawings for residential and multifamily projects in Florida, ensuring compliance with regulatory requirements.
- Conceptualized and developed electrical and plumbing MEP designs, collaborating with architects and engineers to drive project accuracy and precision.
- Conducted project estimations, analyzing costs from mechanical contractors and architects to inform strategic decision-making.
- Directed a team of 6 engineers, implementing quality control measures to ensure timely project completion and precision in design and execution.

Various Companies

WordPress Developer (Part-time), July 2022 - May 2023

- Designed, developed and deployed scalable e-commerce websites for various clients using WordPress, leveraging expertise in:
 - Python, Django for custom theme and plugin development
 - HTML/CSS/JavaScript for responsive front-end design and development
 - WordPress REST API for integrating third-party services and custom applications
 - Git version control for collaborative development and deployment
 - WordPress security best practices for ensuring site integrity and protecting against vulnerabilities
- Utilized problem-solving skills to resolve technical issues, optimize website performance and improve user experience
- Collaborated with clients to understand requirements, provide technical guidance and deliver tailored solutions

AWC, Inc., Tampa, Florida

Application Engineer, July 2022 - February 2023

- Demonstrated advanced PLC programming skills in Siemens TIA Portal, Allen Bradley/Rockwell Studio 5000 and Honeywell Experion HS
- Ensured optimal system performance through expertise in control loops
- Applied engineering proficiency across diverse applications for renowned clients:
 - SpaceX
 - Valpak
 - Tampa Wastewater Department
 - Johnson & Johnson
 - Bristol-Myers Squibb
- Specialized in Festo USA pneumatics technology and serial bus technologies
- Expertise in various technologies and tools

United Way, Greater Albany, Georgia Area

Board Member - Finance Committee, February 2021 - July 2022

- Ensured legal compliance with relevant financial laws and regulations
- Stayed informed about changes in financial regulations impacting the organization
- Applied problem-solving skills to address financial challenges and opportunities

Procter & Gamble, Albany, Georgia

Power Controls & Information Systems Engineer, December 2019 - July 2022

- Led a \$75 million (Under close monitoring of Senior Controls Team) papermaking machine start-up initiative (BOMs exceeding \$2MM, IO's exceeding 5k)
- Managed various controls obsolescence projects, most notably:
 - Modicon model 084 controller DCS legacy systems to Honeywell's Experion LX DCS systems (Extensive exposure to state-of-the-art BMS architecture, Controller and networking hardware for BMS's, MODBUS networking protocols and IO physical installations)
 - Allen Bradley ControlLogix integration (Extensive exposure to Studio 5000, FactoryTalk, FactoryTalkView, FactoryTalk Analytics, and Ethernet IP networking protocols)
 - GE's Historian data management and integration leveraging Power BI for dashboard visual controls and predictive analytics
- Contributed to innovative projects:
 - Developed a sophisticated safety incident tool utilizing machine learning, leveraging GE's Historian data analytics platform and implementing deep learning techniques with TensorFlow
 - Implemented advanced optimization techniques using TensorFlow to improve model accuracy and efficiency

- Collaborated with cross-functional teams to integrate the safety incident tool with existing systems, enhancing predictive capabilities and reducing downtime

Raymond James, Tampa/St. Petersburg, Florida Area

Summer Intern, April 2016 - August 2016

- Gained hands-on experience with Bloomberg terminal, logging over 200 hours of training and application for the creation of financial reports for senior management review
- Successfully coordinated database migration from existing to new systems using Microsoft Access
- Developed financial model building and programming skills in Python, with over 300 hours of experience leveraging various machine learning libraries and APIs (Neural Networks, Logistic regression, SVM's,)

Certifications

- **CFA Institute:** *CFA Program Level I*, Apr 2024
- **DeepLearning.AI:** *Mathematics for Machine Learning and Data Science*, Apr 2024

Languages

- **English:** Fluent
- **Spanish:** Fluent
- **Italian:** Fluent