

Luka Grimes

Instrumentation & Controls Engineer

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SUMMARY

Detail-oriented Instrumentation and Controls Engineer with over 4 years' experience in designing and analyzing control systems for nuclear power environments. Proven expertise collaborating with multidisciplinary teams to enhance safety and efficiency in plant operations, developing precise engineering deliverables while maintaining compliance with regulatory standards. Holds a Bachelor's degree in Electrical Engineering, complemented by strong communication and problem-solving skills that facilitate effective client interactions and team collaboration. Eager to contribute strategic insights and hands-on expertise at Enercon Solutions, ensuring operational excellence and robust project results.

EXPERIENCE

Instrumentation and Controls Engineer

TechPower Engineering 📅 June 2024 - Present 📍 Orlando, FL

Leading efforts in providing instrumentation and controls engineering solutions critical to commercial nuclear facilities. This role requires collaboration with cross-functional teams to ensure safety, reliability, and efficiency across operations; emphasis on developing high-quality engineering deliverables tailored to client specifications.

- Developed error-free engineering drawings and calculations, adhering to industry codes and regulatory compliance, enhancing project deliverables.
- Performed extensive electrical assessments to mitigate risks, ensuring adherence to stringent safety protocols and regulations.
- Worked closely with vendors during submittal reviews, influencing design decisions to improve overall project quality.
- Implemented innovative strategies that enhanced plant reliability, significantly reducing downtime and optimizing control system performance.
- Provided vital field support through detailed plant walkdowns, verifying compliance to engineering standards and facilitating direct client engagement.
- Fostered collaborative relationships with clients, earning their trust while effectively communicating technical aspects of projects.

Junior Instrumentation Engineer

Nuclear Design Associates 📅 January 2022 - May 2024 📍 Fort Myers, FL

Contributed valuable insights into the design and integration of control systems for nuclear projects, specifically focusing on PLC and DCS functionalities. Actively participated in supportive roles ensuring project objectives met rigorous regulatory standards.

- Assisted in designing control system solutions, fostering team discussions around PLC and DCS impacts on project outcomes.
- Created comprehensive documentation supporting engineering initiatives, ultimately improving reporting accuracy and project clarity.
- Collaborated with interdisciplinary teams to drive alignment on design goals, proactively addressing potential hurdles.
- Engaged in ongoing learning related to safety advancements and evolving engineering technologies to elevate own contributions.
- Participated in quality assurance efforts, reinforcing the importance of facilitating compliance with client deliverables.
- Maintained exemplary work ethic while managing tasks, gaining respect among peers and recognition for contributions.

Engineering Intern

Engineering Innovations Group 📅 May 2021 - August 2021 📍 Miami, FL

Supported senior engineering teams by lending assistance in developing control designs and accompanying documentation. Gained insight into practical applications of engineering principles within a fast-paced environment focused on efficiency and innovation.

- Aided in the development of control system designs, implementing learned concepts dynamically and contributing to team project goals.
- Conducted research on emerging design techniques, sharing findings that accelerated project advancements.
- Oversaw compliance checks during plant walkdowns, laying groundwork for strict adherence to established engineering standards.
- Generated technical documentation that supported engineering processes, helping streamline task execution and drive efficiency.
- Collaborated with peers to solve challenging design issues, showcasing strong teamwork in achieving project milestones.
- Participated in targeted training on industry safety practices, expanding knowledge and preparing for future engineering responsibilities.

LEADERSHIP & AWARDS

- Achieved recognition for outstanding diligence during annual project audits at TechPower Engineering.
- Received commendation from management for proactively leading design discussions and connecting with client representatives.

EDUCATION

Bachelor's Degree in Electrical Engineering

University of Central Florida 🎓 GPA: 3.5 📅 2024 📍 Orlando, FL

Coursework: Circuit Analysis, Control Systems, Power Electronics, Digital Signal Processing

CERTIFICATIONS

- Certified Engineering Technician (CET) 📅 2025
- OSHA 30-Hour General Industry Training 📅 2025

TECHNICAL SKILLS

- **Engineering Software:** AutoCAD, MATLAB, SolidWorks
- **Control Systems:** PLC Programming, DCS Configuration, HMI Integration
- **Design Tools:** Visio, PSpice, LabVIEW
- **Quality Assurance Standards:** ISO 9001, ASME NQA-1, API 650
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Document Management:** SharePoint, Confluence, Google Drive
- **Regulatory Compliance:** DOE Regulations, NRC Guidelines, ANSI Standards
- **Assessment Techniques:** Root Cause Analysis, Risk Matrix, Fault Tree Analysis
- **Team Collaboration:** JIRA, Trello, Asana
- **Presentation Software:** Microsoft PowerPoint, Prezi, Canva

SKILLS

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| • Proficient in PLC and DCS design | • Proficient in Microsoft Office Suite | • Engineering drawing creation | • Risk assessment |
| • Strong analytical and problem-solving skills | • Technical documentation | • Client engagement strategies | • Project documentation management |
| • Excellent communication and teamwork abilities | • Quality assurance processes | • Field support and evaluations | • Compliance verification |
| • Familiarity with regulatory compliance and safety standards | • Interdisciplinary collaboration | • Vendor interaction and oversight | • Safety protocol implementation |

PROFESSIONAL AFFILIATIONS

- Member of the National Society of Professional Engineers actively participating in local chapter events.
- Volunteer at Orlando STEM education programs teaching basic engineering principles to students.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST