Austin T. Berg

(407) 925-4387 | Orlando, FL | austinberg2001@gmail.com | In: https://www.linkedin.com/in/austin-t-berg

Education:

University of Central Florida — **Orlando, FL**
Bachelor of Science, Electrical Engineering (B.S.E.E.) — *January 2022 - June 2025*

Seminole State College of Florida — **Sanford, FL**
Associate of Science, Engineering Technology (A.S.E.T) — *Graduated 2023*

Professional Experience & Design Projects:

***Leidos**, Electrical Engineering Intern* — *May 2024 – Present*

Engineered and implemented advanced protection and control with a focus on relay coordination schemes, fault analysis, and protective device settings to improve reliability and safety, while conducting design reviews and system modeling to ensure integration of control circuits in compliance with industry standards.

- **Substation Transmission Controls Overhaul/Upgrade** *(May 2024 – December 2024)*
  - Collaborated with the lead director in a major substation upgrade, focusing on the complete replacement of transmission breaker relays and associated controls, ensuring seamless integration and reliability with an improvement in compliance with ANSI and IEEE standards.
  - Led main design on 161 kV transmission breakers' relaying protection and controls, main capacitor bank protection and controls, CVT junction box replacements, replaced equipment removals, and SCADA telecommunications upgrade, totaling over 150+ electrical schematics designed and drafted.
  - Applied project management methodologies (30-60-90 percent), utilizing KPIs (Key Performance Indicators) and RFIs (Request for Information) to streamline processes, ensure project milestones were met, and maintain clear communication with clients to align expectations and resolve issues.

***Universal Orlando Resort**, Controls Technician* — *January 2022 – April 2024*

Maintained and optimized complex control systems for theme park rides and shows, including electrical, mechanical, hydraulic, and pneumatic components, ensuring safe and efficient operation through routine diagnostics, technical repairs, and compliance exceeding industry standards.

- **Roller Coaster PLC Simulator** *(July 2023 – January 2024)*
  - Conceptualized and launched development of a roller coaster simulator device for training new technicians on programmable logic controllers (PLCs), ride trend data collection, and sensor applications/testing, resulting in over a 50% reduction in PLC diagnosis time for participants.
  - Led the design, construction, and weekly progress presentations of the simulator by installing, wiring, and testing motors, solenoids, PLCs, relays, and sensors, while completing the bill of materials and work order documentation to ensure alignment with strategic goals.
- **Ride Vehicle Restoration** *(October 2022 – March 2023)*
  - Successfully overhauled an inoperable ride vehicle by installing upgraded variable frequency drives with updated PLC ladder logic, resulting in upwards of a 10% reduction in ride downtimes.
  - Corrected errors in the electrical print, drafted accurate wire diagrams, updated drawings with Engineering approval, and tested the ride vehicle for ASTM safety standards compliance.

Skills & Certifications:

Animation/Animatronics, Arduino, Rapid Prototyping, 3D Printing & Additive Manufacturing, Troubleshooting.

- Programs:
  - Programming Languages: C, Python, Java, MATLAB, Assembly, G-Code, Ladder Logic, Structured Text.
  - CAD, PCB and Circuit Design: AutoCAD, Solidworks, Fusion 360, LTSpice, Revu Bluebeam.
  - PLC Ladder Logic: Rockwell Automation Suite (RsLogix / Studio 5000, RsLinx & FactoryTalk).
  - Software Proficiency: Git/Github, Windows/Linux, Adobe Creative Suite, Microsoft Office Suite.
- Certificates:
  - *Automation*, *Mechatronics*, & *Engineering Technology Specialist* | Seminole State College of FL.