

KARLA M. ROMERO, MS

Seneca, SC

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ELECTRICAL ENGINEER ✦ AUTOMATION ENGINEER ✦ CONTROLS ENGINEER

Process Improvements ✦ Safety Compliance ✦ Testing/Analysis

Accomplished, solutions-oriented bilingual Electrical Engineering Professional highly regarded for strong technical training and superior knowledge to plan, maintain, repair, and oversee electrical projects in various settings. Recognized for sound analytical and problem-solving skills with the ability to troubleshoot complex issues and ensure timely resolution. Known for skills in defining the core nature of issues, identifying and analyzing root causes, and detecting waste elimination opportunities. Cross-functions as a team member, leader, and independent professional, performing under pressure and meeting all deadlines in any capacity. Exceptional academic qualifications, including a Master of Science degree in Electrical Engineering from Clemson University.

SELECTED HIGHLIGHTS

- Designed motor control centers based on customer plans and specifications, ensuring requirements were met at Schneider Electric Company.
- Programmed, implemented, and troubleshoot electrical equipment issues related to automatic transfer schemes.
- Rendered technical drawings and electrical systems specifications that exceeded company standards.
- Documented operating processes by creating sequences of operations for equipment manufactured.
- Protected the safety and health of the public and coworkers by proactively monitoring, trending, maintaining, repairing, and improving plant systems at Southern Nuclear Company.
- Team Leader for "Smart Factory" project. Planned, managed and implemented project to achieve IoT (Internet of Things) which helps with implementation of the Lean Digital Systems methodology.

CORE COMPETENCIES

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|-------------------------|-------------------------|-----------------------------|
| ▪ Technical Drawings | ▪ Mechanical Drawings | ▪ Circuitry Building |
| ▪ Electrical Schematics | ▪ Exploded Parts Viewed | ▪ Electrical Safety Testing |
| ▪ Geared Systems | ▪ Troubleshooting | ▪ Digital Testing |
| ▪ Project Development | ▪ Control Systems | ▪ Outsourcing |
| ▪ Report Preparation | ▪ Embedded Systems | ▪ Prototyping |
| ▪ Lean Manufacturing | ▪ Cost Control | ▪ Agile Development |
| ▪ Project Scheduling | ▪ Project Lead/Manager | ▪ Innovative Designs |

PROFESSIONAL EXPERIENCE

Schneider Electric Company ✦ Seneca, SC ✦ 2015 – Present

Application Engineer

- Design motor control centers based on customer plans and specifications, ensuring requirements are met.
- Program, implement, and troubleshoot electrical equipment problems related to automatic transfer schemes.
- Render technical drawings and electrical systems specifications that exceed company standards.
- Document operating processes by creating sequences of operations for equipment manufactured.
- Perform detailed calculations to compute and establish manufacturing, construction, and installation standards and specifications, ensuring 100% accuracy.
- Team Leader for "Smart Factory" project. Planned, managed and implemented project to achieve IoT (Internet of Things) at manufacturing plant. Completion of this project allows for data acquisition from unintelligent and intelligent machines. Data acquired helps the plant implement the Lean Digital Systems methodology which will improve operational efficiency, productivity, will elevate the quality of the products and will enhance overall performance.

Southern Nuclear Company ✦ Dothan, AL ✦ 2010 – 2013

System Engineer

- Protected the safety and health of the public and coworkers by proactively monitoring, trending, maintaining, repairing, and improving plant systems, including security systems, communication system, solid state protection system, nuclear instrumentation system, and 7300 process control system.
- Performed technical evaluations and corrective actions with strict attention to detail.
- Provided vendor oversight and interdepartmental consultations to enhance organizational efficiency.
- Sought industry training and participated in user-group conferences to increase skill levels.
- Responded to emergent tasks from upper management promptly utilizing extensive engineering skills.

General Motors Company ✦ Flint, MI ✦ 2006 – 2007

Intern, Electrical Group of Manufacturing Engineering

- Improved product quality by efficiently programming robots and other equipment.
- Performed safety observations to reduce injuries and accidents.
- Updated circuitry blueprints to aid electricians in wiring new electrical equipment.
- Installed safety equipment for pedestrian walkways above manufacturing conveyors to enhance walkway safety.

EDUCATION

Clemson University, Clemson, SC: 2015

Master of Science – Electrical Engineering, Concentration in Intelligent Systems (GPA: 3.81/4.0)

- Relevant Coursework:** Linear and Nonlinear Control Systems, Analysis of Robotic Systems, Ergonomics Psych, Robot Manipulators, Image Processing, Electrical Machines and Drives
- Clubs/Activities:** Project WISE

University of Puerto Rico – Mayagüez, Mayagüez, PR: 2009

Bachelor of Science – Electrical Engineering, Concentration in Power Systems (GPA: 3.58/4.0)

- Relevant Coursework:** Power System Analysis, Power Electronics, Biomedical Instrumentation, Design of Electrical Systems
- Awards/Honors:** Magna Cum Laude
- Clubs/Activities:** Institute of Electrical and Electronics Engineers (IEEE) – Member

University of New Hampshire, Durham, NH

Bachelor of Science (Exchange student) – Electrical and Electronics Engineering

ADDITIONAL CREDENTIALS

TECHNICAL SKILLS	Microsoft Office (Word, Excel, PowerPoint, Outlook, Access, Visio, Publisher) / AutoCAD / AB Logix / Panel Builder / Unity PLC / Vijeo / MATLAB / Maximo / C++ / PLC Ladder Logic
LANGUAGES	English and Spanish – Bilingual proficiency
HONORS AND AWARDS	<ul style="list-style-type: none"> Performance Award – Schneider Electric Excellence Award for High Performance – Southern Nuclear Company High Honors Scholarship – University of Puerto Rico
PROFESSIONAL DEVELOPMENT	<ul style="list-style-type: none"> Certificate of Achievement from the National Academy for Nuclear Training at Farley Nuclear Plant Westinghouse Certificate of Achievement in NIC 335 Nuclear Instrumentation System Westinghouse Certificate of Achievement in NIC 330 Solid State Protection System

VOLUNTEERING EXPERIENCE

The Salvation Army / Habitat for Humanity / Project WISE

INTERESTS

Essential Oils, travel, animals, video games, learning new languages, crocheting

Detailed Professional References Available upon Request

