

Virginia Campbell

Electrical Engineer

Electrical engineer with 8 years across power distribution, controls, and PCB-level hardware. PE-licensed in NC and VA, with field experience commissioning industrial sites and a track record of cutting rework on board spins. Strongest where schematic capture, vendor coordination, and shop-floor reality meet.

CONTACT INFORMATION

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EDUCATION

- B.S. Electrical Engineering, North Carolina State University, 2016
- Professional Engineer (PE), Electrical, NC and VA
- OSHA 30 Construction

KEY SKILLS

- AutoCAD Electrical
- ETAP, SKM PowerTools
- Allegro PCB, Altium
- PLC integration (Rockwell, Siemens)
- Arc-flash and short-circuit studies
- NEC 2020/2023, IEEE 1584
- LTspice, MATLAB
- MIL-STD-461 EMI testing
- Vendor and contractor management

PROFESSIONAL EXPERIENCE

Senior Electrical Engineer | Bellmark Industrial Systems, Raleigh, NC
2021 - Present

- Own electrical design for a line of 480V skid-mounted control panels shipped to water and wastewater clients across the Southeast.
- Led a redesign of the main I/O backplane that cut field rework calls from 11 per quarter to 2, paying back tooling cost in under 7 months.
- Mentor two junior EEs through PE exam prep and schematic review; both passed FE on first attempt.
- Run weekly coordination with PLC programmers and the mechanical team to catch interference issues before fabrication release.
- Authored arc-flash study templates now used as the company standard for IEEE 1584 calcs.

Electrical Engineer | Northwynd Power Consulting, Charlotte, NC
2018 - 2021

- Designed medium-voltage distribution for two solar farms totaling 38 MW; both energized on schedule with zero punchlist electrical items.
- Sized transformers, cable, and protection for industrial retrofits using SKM PowerTools and ETAP.
- Stamped drawings as PE for ~\$4.2M in client projects after licensure in 2020.
- Site-walked switchgear installations and resolved coordination errors that contractors had missed during submittals.

Electrical Engineer I | Coastal Edge Defense Electronics, Norfolk, VA
2016 - 2018

- Supported PCB layout for shipboard signal conditioning boards under MIL-STD-461 EMI requirements.
- Ran bench validation on 12 prototype units; documented findings that drove a layer-stack change reducing crosstalk.
- Wrote acceptance test procedures used by production for two product lines.