Philip Curtis

Minnesota, U.S.A.

Systems Engineer / Master Electrician

+1-954-505-9494

Phil@PhilCurtis.biz

Linkedin/in/PhilCurtisBiz

**Summary**

* Lead Electrical Construction Engineer for electrical & solar projects in Minnesota & Wisconsin.
* Master Electrician & Master-of-Record delivering uncompromising quality for Minnesota’s most progressive solar company.
* Lead project manager, field engineer, & inspection liaison for solar system installations ranging from 10KW to1MW
* A systems engineer & electrician experienced in practical operations, maintenance, troubleshooting, and repair.
* Lead Commissioning Chief Engineer bringing new construction & shipyard vessels online & safely ocean-transit ready.
* Develop & maintain all engineering systems, operational procedures, & safety plans across multiple luxury yacht programs.
* Long reputation of safety-focused engineering and management successes including employee retention & budget adherence.
* Proven and well documented aptitude of electronic control systems, electrical, hardware, software, and mechanical.
* Project management successes due to adaptability, resourcefulness, tenacity, & deep learning abilities.
* Professional reputation for critical thinking, decision-making wisdom, and problem-solving ability.

**Licenses**

* Minnesota Master Class A Electrician (#AM761458)
* Minnesota First Class A Engineer, Boilers and Steam (#1A738747)
* Wisconsin Master Electrician (#1531427)
* SolarEdge Certified Commercial Installer
* U.S. Environmental Protection Agency (EPA) Universal Engineer, HVAC
* USA Coast Guard Chief Engineer, Oceans, Unlimited Horsepower, 3000 Gross Tons
* USA Coast Guard Captain, Operator of Passenger Vessels, Coastal

**Skills**

* Solar Project Manager.
* Solar Field Designer, operations, troubleshooting & maintenance.
* Electricity & Electronic Control Systems
* Regulatory Compliance Officer
* NEC 2020 Codebook Compliance
* HVAC & Refrigeration Technician
* Inspection, Fault-finding, & Repairs
* Fluid Management & Hydraulics
* Detailed Organization & Record Keeping
* PLC & Ladder Diagrams, Schematics, & Blueprints
* Internal Combustion Engines & Generators
* Safety Focused Engineering
* Software Development & Code Implementation
* SCADA Systems  Consistent Prioritization of Customer Service
* Gas Turbine, Boiler, & Pumps
* Potable, Black, & Grey Water Systems Engineer
* Mechanical Aptitude
* Professional Communication Skills
* Core values of Reliability, Transparency, & Honesty

**Experience**

Master Electrician/Master-of-Record, TruNorth Solar Mar2020 - Present

* Oversight of all TruNorth Solar (TNS) company projects & electrical permitting.
* Follow, approve, design, & field modify commercial & residential solar, electrical, & renewable energy projects.
* TNS chief enforcement officer of the National Electric Code (NEC2020).
* Primary employee for customer service & communication with homeowners, business, government & licensing entities.
* Responsible for successful operations of all systems using various field-installed equipment.
* Electrical Department manager overseeing field teams installing residential and commercial solar systems.
* Regulatory Compliance Officer who changed company’s inspection procedure leading to fewer failures.

Data Center Supply Analyst, UHG-Optum Apr2018 – Feb2020

* Trusted solo engineer for United Health Group’s primary data center facility.
* Perform machinery logging and emergency operations for multiple server and equipment spaces.
* Devised a water ingress pumping solution preventing long term data center flooding emergencies.
* Minnesota statues and technical legal researcher as only state-licensed electrician for facility.

Chief Engineer, Luxury Yacht Industry Nov2006 – Jun2016

* Lead Decision-maker for electrical power supply, distribution, and management.
* Chief Engineer facilitating operational tasks for personal and engineering systems, while holding primary responsibility of guests, crew, and vessel safety.
* Lead project manager for USCG required drydocking periods during worldwide shipyard locations.
* Managed all vendor projects, periodic overhaul and legal-entity inspections of engineering systems and diesel engine machinery.
* Digitized consumable usage data and adjusted purchasing resulting in a 66% annual savings.
* Sole responsibility of engineering projection of consumable needs.
* Career highlight of zero equipment downtime.
* Career highlight of passing all U.S. Coast Guard and MCA-UK inspections.

Chief Electrician and US Coast Guard Engineering Officer

U.S. Merchant Marines May1998 – Mar2006

* Three Medals of Outstanding Achievement for engineering and electrical service in Persian Gulf.
* Field designer & builder of shipboard electrical systems for newly constructed USNS-LMSR vessels.
* Key personnel as chief electrician & fire-fighting team leader for Iraqi Freedom military support vessels.

**Education**

These are some of my educational highlights in chronological order.

* SolarEdge Commercial Installer Certification
* SEL Relays Programming SEL Relays
* Century College NABCEP Preparatory Advanced Courses
* Prime Digital Academy MEAN Stack Software Development
* RTF STAR Center Gas Turbine Engineering
* Lundeberg School of Seamanship Marine Engineering Program
* Caterpillar Diesel Engines Series 3500 and 3600
* Rolls-Royce MTU Diesel Engines Series 2000 and 4000, CM1and CM2
* EMC/MTN Satellite Communications Technicians Course
* Bitzer HVAC Compressor Technician Course
* Department of the U.S. Navy Environmental Protection Coordinator