**CHARLES SMITH**

Fort Bragg, NC 22351 | (222) 633-4444 | chuck2@gmail.com

**ELECTRICAL AND ELECTRONICS TECHNICIAN**

Dedicated, detail-oriented and experienced electrician, nuclear technician and manager with experience in multi-platform maintenance operations, complex troubleshooting, electrical installation and repair, specification compliance and developing rapid innovative technical solutions. Extensive experience in with systems including diesel engine-driven generators, AC and DC motors and generators, high and low voltage electrical systems, circuit breakers and electrical systems, schematics, blueprints, diagrams, drawings and electrical wiring. Current Secret security clearance. **KEY SKILLS:**

* Power Supply
* Lock-Out/ Tag-Out
* Process Improvement
* AC/DC Theory
* Industrial Safety
* Blueprints/ Schematics
* Multimeters/ Oscilloscopes
* Quality Control Analysis
* Hydraulics/ Pneumatics
* 3 Phase Systems
* Motors/ Generators
* PLCs

**EDUCATION**

**Nuclear Propulsion Plant Operator Course (Prototype):** Completed 6 months of advanced nuclear prototype training which required the safe operation of a naval nuclear propulsion plant during startups, shutdowns, transient operations and casualty scenarios.

**Nuclear Power School:** Completed advanced courses in math, heat transfer, chemistry, physics, radiological controls, material science, reactor dynamics and mechanical engineering fundamentals in the design, operation and maintenance of naval nuclear propulsion plants with distinction.

**Nuclear Field A School** | **Electrical Theory**

**PROFESSIONAL EXPERIENCE**

**Submarine Nuclear Electrician** | U.S. Navy | Apr 2016 – Present

Managed and cross-coordinated with a specialized team, diagnosing, troubleshooting and repairing on electrical, electronic and mechanical systems. Performed maintenance, aligning repair, installation and overhaul on 1,000+ maintenance items, sustaining a 99% completion rate; maintained logs of all repairs, tests and adjustments. Coordinated and de-conflicted maintenance items and schedules across departments. Operated systems for both electrical generation and distribution; performed preventative and corrective maintenance AC and DC motors and generators, variable frequency drives, PLCs and control systems. Assembled/disassembled switchboards, motors/generators, equipment controllers, and major distribution breakers. Maintained electrical and mechanical components on diesel engine-driven generators. Tested interlocks and electrical continuity for various AC and DC circuit breakers. Maintained complex electronic equipment, performing alignment, alignment checks and periodic operational checks.

* Managed the collection and transfer of critical equipment data for readiness condition standards, with 100% accountability.
* Performed risk mitigation, emergency response and 24/7 maintenance watch operations; performed emergent repairs and troubleshooting on mission critical equipment, to maintain ship schedule.
* Operated standard test and metering equipment, including multimeters, voltmeters, ammeters, ohmmeters, oscilloscopes and voltage testers.
* Interpreted electrical and mechanical schematics, blueprints and diagrams.
* **Electrical Safety Program Manager:** Fortified electrical maintenance safety discipline; instituted routine inspection and education with technicians, providing hands-on training to mitigate risk.

**Aircraft Electrical and Environmental System Technician** | U.S. Air Force Reserves| 2011 - 2017

Performed aircraft maintenance, repairs, installations and overhaul on electrical and environmental systems, including electrical wiring, electronic systems, harnesses, connectors, pneumatic, hydraulic and fuel systems; conducted cryogenic maintenance on mobile aircraft servicing units. Preformed removal, replacement, installation, maintenance and overhaul on high- and low-pressure pneumatic components including valves, ducts, sense lines, clamps and fittings. Maintained compressed gas equipment. Removed and replaced high voltage and low voltage electrical components, including relays, circuit breakers, logic/gate circuits and assemblies. Operated and maintained power and circuits, electrical fixtures, voltage, frequency regulators and other test equipment; rebuilt electro-mechanical equipment.

* Conducted comprehensive wire maintenance including splicing, crimping, routing, replacing, pinning and de-pinning wires, repairing and replacing electrical connectors, plugs and receptacles.

**Air Traffic Control Equipment Repair Technician** | U.S. Navy | Nov 2012 – Mar 2016

Conducted and coordinated depot-level maintenance and operation on tactical air traffic control navigation, radar system, communication, PLCs and radio equipment and display distribution systems. Inspected, tested, maintained and repaired components, assemblies, subassemblies, modules, cards, printed circuit boards and ancillary equipment. Troubleshot, repaired, isolated and diagnosed satellite navigation, transponder, distance measuring and communications systems/subsystems. **Administered oversight of quality assurance, safety and risk management for the troubleshooting and repair of electronic systems,** infrastructure and support equipment.

* Tested 5,200+ circuitry and radar components; soldered and repaired subcomponents, resulting in $100M in organizational savings.
* Customized 3 Air traffic control towers for special units, increasing operational capacity by 36% per unit.
* Repaired 8 precision approach radars, 4 airfield surveillance radars and completed 1295.6 hours of radar system troubleshooting, including software and coding.
* Developed instructional platforms and trained junior technicians on the use and maintenance for radars and electronic systems and optical testing equipment.
* Utilized test equipment, including multimeters, watt meters, o scope's, OTDR's, Loop testers, power supplies, antennas, converters (power and data related) and PLC's.

**Journeyman Plumber** | Tim’s Electric | Jun 2007 – Aug 2012

Installed, repaired and maintained plumbing and fixtures for water distribution and wastewater disposal in residential, commercial and industrial buildings. Synchronized and cross-coordinated with multiple departments and trades to ensure that all specifications, legislation, timelines and policies were met for the completion of projects.

* Provided services on water supply networks and waste and drainage systems; installed, repaired and maintained systems adhering to all building codes and safety standards.
* Used various methods such as silver soldering, brazing and welding to join piping components and fixtures. Skilled in polyethylene pipe fusion, pipe threading, and hydraulic hose crimping.

**Patriot Missile Launcher Operator/Maintainer** | U.S. Army | Apr 2004 – May 2007

Troubleshot and maintained patriot missile launching station, orchestrating maintenance, repair, and replacement operations on electronic circuit boards, stop switches and over $100M worth of launchers; maintained 100% mission critical operability and accountability. Removed, disassembled, cleaned, inspected, repaired, assembled, installed and conducted functional checks on multiple missile systems. Preformed scheduled maintenance checks on all air and ground equipment using the appropriate technical data. Supported protection of friendly aircraft through accurate track identification and evaluation, as well as the engagement of hostile aircraft, tactical ballistic missiles, anti-radiation missiles, cruise missiles and unmanned aerial vehicles.

* Troubleshot ordinance systems to identify malfunctions, while inspecting for serviceability and correcting number of repairs needed; cross-coordinated operations to decrease missile reload time by 30%.
* Streamlined processes and analyzed set-up data to align launcher establishment procedures; decreased setup time by 40%.
* Preformed functional tests with all support equipment and all equipment necessary; conducted bench checks on launchers and racks to determine repairs for serviceability.
* Tested suspension equipment for proper release of all suspended munitions, bomb racks, and fuel tanks by performing on-equipment functional tests.
* Utilized the core automated maintenance system, to log work accomplished and to check on the status of inspections and jobs.

**TRAINING:**

U.S. Army Ordinance Electronic Maintenance Training Department - Ft Gordon, GA: Curriculum in troubleshooting practices on direct current (DC), alternating current (AC), analog and digital electronics systems; operation and maintenance of basic electrical test equipment, ultra-high frequency (UHF) and very high frequency (VHF) radar systems, telephone and radio communication systems, fiber optic applications, motor control troubleshooting, SL and X band radar, electronic communication theory and Hazmat storage and handling procedures.