

SENIOR RIG ELECTRICIAN AND ELECTROMECHANICAL TECH.

Hernan G. Clut

Drilling Rigs Offshore & Onshore · VFD, MCC, PLC & Control Systems · CAT Gensets · LV / MV / HV · Solar PV Systems

EXPERIENCE	RIG RATING	RIG GENERATION	RIG POWER	INDUSTRIAL
8+ years	up to 1301 HP	up to 986 kVA	237 VAC / 24 Hz	LV / MV / HV

www.hernanclut.com · linkedin.com/in/rigelectricianhgclut · Contact form: www.hernanclut.com/#contact

PROFESSIONAL SUMMARY

Senior Rig Electrician and Electromechanical Technician with 20+ years in oil & gas drilling and industrial electrical work. Offshore experience with ADNOC Drilling in the Middle East on ExxonMobil and SAIPEM projects, and onshore experience with Nabors in Vaca Muerta, Argentina, on AC/VFD land rigs from 1500 to 3300 HP.

Specialised in ABB VFD drives (ACS800 and latest-generation ACS880), CAT 3412C / 3512C / 3516C generator sets, 1600 A MCCs, switchboards, LV distribution, Siemens PLC controls, BESS and the full drilling package: top drive, drawworks, mud pumps, rotary table, catwalks, pipe handling and iron roughneck. Background as Chief Electrician on LV/MV/HV substations, transformation centers, pumping stations and solar plants, leading crews of 20+ people under PTW, LOTO and JSA. **Used to working in English with crews of more than 45 nationalities.**

HIGHLIGHTS

MIDDLE EAST OFFSHORE
54,000 ft
Depth record operation with MPD, ExxonMobil project (Nov 2025)

MIDDLE EAST OFFSHORE
80 / 200
Wells per PAD drilled with MPD on two ExxonMobil projects, HMH 3300 HP rig

MIDDLE EAST OFFSHORE
SAIPEM
Waste disposal wells on GOP artificial island

MIDDLE EAST
OFFSHORE & ONSHORE
16 MMbbl
Crude storage cavern project

MIDDLE EAST ONSHORE
1280 kW
Siemens BESS on a new 1500 HP rig built with CNPC; among the first crews trained on it

ARGENTINA ONSHORE
8,000 m
Directional oil & gas wells in Vaca Muerta with MPD for YPF, Vista, Total, Tecpetrol & Pluspetrol; PADs of 4 and 6 in-line wells on walking and skidding rigs

ARGENTINA MINING
5,000 m a.s.l.
Barrick Gold: 1000 kVA / 36 kV transformation centers engineered for −35 °C operation

ARGENTINA
RENEWABLE ENERGY
13 - 250 kW
On-grid and off-grid solar PV, plus aerothermal and solar-thermal systems for residential and industrial facilities

USA
HOSPITALITY CONSTRUCTION
Denver, CO & Houston, TX
Electrical construction follow-up · Marriott hotels, Denver Int'l Airport & Katy, Houston

PROFESSIONAL EXPERIENCE

Jul 2026 – Present

Rig Electrician – Support for Rigs 990, F07, F10, F36 and F35

NABORS Drilling · Vaca Muerta, Neuquen, Argentina · Onshore

- Responsible for the electrical and electromechanical integrity of the drilling package across five AC/VFD land rigs (1500 / 2000 HP), from routine maintenance to fault diagnosis.
- Rigs drilling directional oil and gas wells for YPF, Vista, TotalEnergies, Tecpetrol & Pluspetrol up to 8,000 m with MPD (managed pressure drilling), on PADs of 4 and 6 in-line wells per location with walking and skidding rigs.
- Diagnose and repair faults on motors and driven equipment from 1.5 to 2000 HP at 600 VAC / 60 Hz, working to IEC / NEC standards and site HSE procedures.
- Troubleshoot ABB ACS800 VFD power sections and control logic: parameterization, functional testing, trend analysis and DDCS fiber-optic links (RDCO modules).
- Troubleshoot PLC logic, I/O, interlocks and hardwired relays; read and interpret electrical and electronic schematics to isolate faults quickly and minimize NPT.
- Maintain, test and repair CAT 3512C gensets with KATO generators, 1600 A MCCs, switchboards, circuit breakers, voltage regulators and protective relays; verify insulation resistance, continuity, phase balance and protection settings.
- Build, install and commission distribution and starting panels and lighting systems, including terminations (crimp / solder), cable routing and labeling to standard.
- Plan and record PM/CM in MyNabors and Nabors RMS; manage spares in MyWarehouse; write technical and incident reports, JSA / ATS, PTW, LOTO and HSE observation cards.

Equipment: Canrig 1250AC-681 Top Drive, Canrig PC3000 Catwalk, Canrig TM-100 Pipe Handling, CAT 3512C gensets with KATO 1952 kVA generators, CAT 3412C auxiliary back-up genset, PACE F-Rig and ZJ50DBS VFD houses, Gateway Fluid Power substructure HPU.

Solids control: M-I SWACO shale shakers.

Software: RigCloud for live well and rig data; ROCKit and REVit; MyNabors, Nabors RMS, MyWarehouse; Microsoft 365.

`ABB ACS800` `CAT 3512C` `Canrig Top Drive` `Siemens S7` `MPD` `Skidding rigs` `Walking rigs` `RigCloud`

Sep 2023 – May 2026

Rig Electrician

ADNOC Drilling · Abu Dhabi, UAE · Offshore & Onshore

OFFSHORE PROJECTS

- Rig Electrician on two ExxonMobil offshore projects with an HMH 3300 HP rig, drilling with MPD (managed pressure drilling) on PADs of 80 and 200 wells with separation, storage and pumping to mainland.
- Part of the crew on the 54,000 ft offshore depth record operation drilled with MPD (Nov 2025).
- Rig Electrician for SAIPEM waste disposal wells on GOP artificial island.
- Electrical support for a 16 MMbbl crude storage cavern project.

RIG OVERHAUL & COMMISSIONING

- Supported overhaul, upgrades and recommissioning of H&H Cyber Chair 3300 HP rigs under strict HSE standards; supported rig startups for AD-66 and AD-68.
- Supported full overhaul of the drilling package: HMH Bulldog BD160 Automated Iron Roughneck, HMH DDM-1000-AC-2M Top Drive (3300 HP), HMH GH 3300 EG-AC 2G Drawworks, HMH TPK 2200 AC-RB-10k Mud Pumps and HMH RTSS 37½-E Rotary Table.
- Maintenance and verification of DSU and latest-generation ABB ACS880 VFD systems: fuses, capacitors, IGBTs, RTAC and RDCO boards, encoder signals and fiber-optic links.
- Supported overhaul of five CAT 3516C generator sets (2500 kVA each) and completed a rig-wide LED lighting conversion.
- Removed the legacy shaker system and installed and commissioned a NOV VSM 300 shaker with sump.

NEW-BUILD RIG WITH CNPC

- 90 days with CNPC (China National Petroleum Corporation) building and commissioning a new 1500 HP BOMBCO rig (2023), then permanent Rig Electrician on it.

- Among the first crew trained to operate a rig with a Siemens BM-BES 1280 kW BESS; maintained latest-generation ABB ACS880 VFD drives, Siemens PLC controls, 1600 A BOMAY MCCs, switchboards, generators and LV distribution.
- PM/CM across the drilling package (NOV TDS-11SA 600 kW top drive, drawworks, rotary table and mud pumps); assembly and commissioning of electrical panels (distribution and starting), lighting and generator sets.
- Permit to work and energy isolations through ADNOC WMS; logs, test and inspection reports and spares tracking.

Controls: Siemens S7-300 (CPU315–317) and S7-1500 (CPU1513–1516); 1600 A Allen-Bradley and WEG MCCs; BOP control system; gas detection (Draeger, MSA, RAE / Honeywell); shale shakers (Derrick, NOV); NOV Soft Torque.

`HMH 3300 HP` `ABB ACS880` `CAT 3516C` `Siemens BESS` `NOV RigSense` `ADNOC WMS` `MPD`

Oct 2013 – Aug 2019

Rig Electrician – Rigs 990 & 991 (2000 HP) · Support for Rigs F03 and F07 (1500 HP)

NABORS Drilling · Vaca Muerta, Neuquen, Argentina · Onshore

- Nearly six years as Rig Electrician and VFD Electrical Specialist on AC land rigs drilling oil and gas wells in Vaca Muerta: permanent on Rigs 990 and 991 (2000 HP) and support for Rigs F03 and F07 (1500 HP).
- Operation and predictive, preventive and corrective maintenance of CAT generator sets, switchboards, 1600 A MCCs, ABB ACS800 VFD drives and PLC controls at 600 VAC / 60 Hz.
- PM/CM across the drilling package (top drive, drawworks, rotary table and mud pumps), with rapid fault isolation to minimize NPT.
- Diagnosed and repaired faults on AC motors and driven equipment from 1.5 to 1500+ HP; VFD parameterization, functional testing and trend analysis.
- Electrical rig-down, rig-up and recommissioning during rig moves; built, installed and commissioned distribution and starting panels and lighting systems.
- Daily coordination with the Rig Mechanic and operations to plan isolations, PTW and equipment downtime; toolbox talks, safety observations and LOTO compliance.
- Routine inspections, load tests and calibrations; verified insulation, continuity, phase balance and protection settings with test instruments and digital monitoring.
- Live well and rig data monitoring with RigWatch (now RigCloud); top drive software ROCKit and REVit.
- Spare parts control and requisitions in MyWarehouse; PM/CM in MyNabors Maintenance and Nabors RMS. IADC RigPass certified with Nabors in 2013.

Equipment: Canrig 1250AC-681 Top Drive, Canrig PC3000 Catwalk, Canrig TM-80 Pipe Handling, 4 × CAT 3512C gensets with KATO 1952 kVA generators.

`2000 HP AC rigs` `ABB ACS800` `CAT gensets` `Drilling package` `RigWatch` `IADC RigPass`

Sep 2002 – Jul 2013

Chief Electrician – Industrial Electricity (LV / MV / HV)

ACATUCIS SA & Green Electric (Electrical Engineering) · Mendoza, Argentina

- Led end-to-end industrial electrical projects with the Engineering Department, from design and engineering calculations through construction, commissioning, testing and turnkey handover.
- Barrick Gold: supply and installation of 1000 kVA / 36 kV transformation centers engineered for 5,000 m a.s.l. and –35 °C operation.
- Substations (SET): 1250 kVA underground substation with TiPEM SF6 switchgear up to 24 kV and MV metering room (Mendoza Judicial Complex); 800 kVA ground-level substations with PFISTERER switchgear; route modification of a 132 kV transmission line (PIT – Boulogne).
- Water utility AySAM: new pumping station with 1600 A WEG MCC and three 380 HP pump motors; pump room automation and programming with VFD, PLC and RTU.
- Solar energy from 13 kW to 250 kW, on-grid and off-grid, plus aerothermal and solar-thermal systems; earthing systems with testing and certification.

- Coordinated multidisciplinary field crews of 20+ people and contractors; led HSE planning, permit to work, technical documentation, FAT / SAT and punch-list close-out.
- Clients included YPF, Shell, San Antonio, Barrick Gold, provincial and national government entities and electrical utilities (EDEMSA), working to IEC, IEEE, NEC, AEA and IRAM.

Technologies: PFISTERER, Ormazabal, TiPEM, FOHAMA, LSIS (LG), CIMET, ABB, Siemens, Schneider Electric, WEG, SEW Eurodrive, Allen-Bradley, General Electric, Eaton, Legrand; VFDs, PLCs, soft starters, RTUs.

`LV / MV / HV` `Substations (SET)` `SF6 switchgear` `Barrick Gold` `Solar PV` `Crews 20+`

CORE SKILLS

POWER & DRIVES

ABB VFD: ACS800 (Nabors) and latest-generation ACS880 (ADNOC); diagnostics, parameters, power and control sections (DSU, IGBTs, RDCO, RTAC)

CAT 3512C / 3516C main gensets and CAT 3412C auxiliary back-up genset, KATO generators, AVRs

Switchboards, 1600 A MCCs (Allen-Bradley, WEG, BOMAY), breakers, relays, overloads

LV distribution: cabling, panels, lighting, grounding

MV switchgear, SF6, substations, transformers

Siemens BESS BM-BES 1280 kW

DRILLING PACKAGE & CONTROLS

Top drives: Canrig 1250AC, HMH DDM-1000, NOV TDS-11SA

Drawworks, mud pumps, rotary table, catwalks, pipe handling, iron roughneck

PLC: Siemens S7-300 / S7-1500, Schneider Electric, Allen-Bradley

Fiber-optic DDCS networks, encoders, I/O, interlocks, hardwired relays

BOP control (CAD), gas detection (Draeger, MSA, RAE / Honeywell)

Shale shakers: Derrick, M-I SWACO, NOV

RIG PLATFORMS & SOFTWARE

AC/VFD rigs 1500 · 2000 · 3300 HP (Cyber Chair)

Platforms: H&H, PACE, NOV, HMH, BOMBCO

OEMs: Aker Solutions, Canrig, NOV, HMH

Drilling data: RigCloud (RigWatch), NOV RigSense

Top drive: NOV Soft Torque, ROCKit, REVit

CMMS: MyNabors, Nabors RMS, ADNOC WMS, MyWarehouse

PRACTICE & STANDARDS

PTW, LOTO, energy isolation, JSA / ATS, RAMS, toolbox talks

Predictive, preventive and corrective maintenance (PM / CM)

Fast fault isolation to minimize NPT

Insulation, continuity, phase balance and protection testing

Commissioning, start-up, FAT / SAT, punch lists

IEC, IEEE, NEC, AEA, IRAM

CERTIFICATIONS & TRAINING

OFFSHORE & SAFETY

OPITO BOSIET with EBS (helicopter safety, sea survival, firefighting, emergency response)	to May 2029
OPITO H2S	to Apr 2027
ADNOC Offshore HSE Passport	to Apr 2027
OEUK / OGUK Offshore Medical	
First Aid, CPR & AED	to Aug 2028
Fire Protection & Prevention Awareness	to Aug 2029
H2S (Nabors)	to Aug 2028
Industrial Technical Rescue – First Responder (MSA)	2026
Defensive Driving	to Jul 2028
IADC RigPass (land & offshore)	2013 · no expiry

PERMIT TO WORK & ELECTRICAL SAFETY

ADNOC WMS Full Package (PTW & isolations)	ADNOC
Electrical Safety Procedures / ADNOC HSE Basic Electrical Safety	ADNOC
JSA (Job Safety Analysis)	ADNOC
Nabors Permit to Work I	Nabors
TotalEnergies 12 Golden Rules & 8 Environmental Rules	Total

OPERATOR INDUCTIONS (VACA MUERTA)

Vista Energy QHSE	2026
Pluspetrol EHS & Compliance	to Aug 2028
PASE Life Saving Rules	2026

TECHNICAL TRAINING

PLC Programming, Levels 1–4 (IEC 61131-3)	Schneider · 40 h

ADNOC DRILLING TRAINING

HSE Induction & Life Saving Rules	ADNOC
Behavior Based Safety, Level 3	ADNOC
Rigging & Slinging	ADNOC
Banksman	ADNOC
Work at Height / Fall Protection	ADNOC
Basic Fire Fighting	ADNOC
Basic First Aid	ADNOC
H2S Levels 1 & 2	ADNOC
Noise Management · Beat the Heat	ADNOC

Full verifiable copies are shared with the hiring company at an advanced stage of the selection process.

REFERENCES

ADNOC Drilling
Letter of recommendation · Chief Electrician reference
adnocdrilling.ae

NABORS Drilling
Letter of recommendation · Supervisor reference
www.nabors.com

ACATUCIS SA & Green Electric
Letter of recommendation · CEO reference
www.acatucis.com

To protect the privacy of my referees, letters of recommendation and contact details are shared directly with the hiring company at an advanced stage of the selection process.

EDUCATION

Electromechanical Technician
Mendoza, Argentina · 1995 – 1996

Electrical Technician
Mendoza, Argentina · 1990 – 1994

LANGUAGES

Spanish	Native
English	Fluent

Studies in Automated Production Engineering
UNCuyo (Argentina) – ITU (France)

INTERNATIONAL MOBILITY

Multicultural crews	45+ nationalities
Argentine passport	Valid to 2031
US visa	Valid to May 2036
Australia visa	In process
Driving license	Class B1 · valid to 2036
Yellow fever vaccination	Yes