

THOMAS FINCK
Electrical Commissionning Engineer

Driving License
- Baden (5400)
Switzerland

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EMPLOYMENT REFERENCE

Engineering & Commissioning Engineer: Protection Relay & MV Systems

Schneider Electric (Schweiz) AG - Since August 2021

Project Engineering part:

Developing Protection Relay set file (Micom Px1x, Px2x, Px3x / Powerlogic P3, P5, & P7 / SEPAM Serie 20&40), including:

- Protection settings according protection schedule
- IEC61850 / GOOSE messaging setfile preparation
- Logic, switchgear control and supervision
- Alarms & Trips
- Signal list for communication
- OCC files preparation
- Drawings preparation for retrofit

Technical support for project management & tendering teams

Project Commissioning part:

- MV Switchgear signals controls
- Interlocking concept / reverse blocking control
- VT and CT control
- Protection & tripping function test with injection device
- Logic / Inputs / Outputs control & adjustment
- Relay communication control
- Release finale documentation & Protocol
- Customer technical support
- Customer training

Application:
Substations, Industries, Critical facilities

Lead Commissioning MV Systems on a 24MW Datacenter

Engineering & Commissioning Engineer: Protection Relay & MV Systems

ABB Schweiz AG - June 2020 to July 2021

- Commissioning of ABB Medium voltage switchgear throughout Switzerland
- Control of inputs, outputs, interlocking & communication (IEC 61850)
- Test injection, control of readings & protection functions
- Customer support and troubleshooting
- Customer training on site
- OCC files, commissioning report & protocol writing

SKILLS

Electrical field

- Commissioning, Troubleshooting & reporting (FR/EN/DE) ★★★★½
- Electrical diagrams reading ★★★★½
- Staff training, customer support (FR/EN/DE) ★★★★½
- MV Protection & control ★★★★½
- Secondary Injection testing set ★★★★☆
- Excitation system & voltage regulation ★★★★☆
- Synchronous generators, excitation systems, parallel operations between machines ★★★½☆
- Primary Injection testing set ★★★☆☆
- MV Switchgears ★★★☆☆
- Machine synchronisation to grid (LV/MV) ★★★☆☆
- UPS Systems & Batteries ★★½☆☆
- Low voltage switschgear ★★½☆☆

Languages

- French: mother tongue ★★★★★
- English: conversational and working knowledge ★★★★☆
- German: conversational and working knowledge ★★★★☆

- Substations, Power Plants, Industries, Datacenters

Service Specialist (UPS & Battery Systems)

ABB Schweiz AG - November 2017 to May 2020

- Installation and commissionning of UPS (with battery)
- Device settings, functions test according to customer needs and project
- Maintenance of UPS, including battery test
- Customer support when needed, Troubleshooting
- External companies handling

Technical Support Specialist

Stoecklin Logistik AG - March 2017 to October 2017 - Full-time - Aesch - Switzerland

- Remote technical support for high technical automated system (Used PLC: S7-300 / S7-1500).
  Uses of vSphere for remote connection
- On site customer's final system start-up support:
  - Issue repport to the appropriate department
  - Troubleshooting and solutions finding

Commissioning Specialist (Generator & BOP)

GE Renewable Energy - June 2015 to February 2017 - Full-time - Birr - Switzerland

- Project: Linthal 2015 - Switzerland
- Electrical machines (Motor/Generator) commissioning (up to 250MW).
- Instrumentation:
  - Cold commissioning of sensors: temperature, pressure, level...
  - Cold commissioning of instrumentation devices: settings adjustment; Sensor tests with their devices.
  - Hot commissioning: check of instrumentation boards and adjustment of settings of the regulation when needed.
  - Troubleshooting of devices.
- Generator and turbine auxiliaries/Low voltage boards:
  - Commissioning of the low -voltage distribution board and its consumers:
  - Cold commissioning of the entire low voltage board: wiring check
  - Cold commissioning of generator and water turbine auxiliaries consumers: wiring checks
  - Power supply check (voltage level/phase rotation).
  - Signals check with the control room.
- General
  - Monitor and/or support electrical tests on the generator:
  - Short circuit and open circuit test
  - Heat run & sequences
  - Troubleshooting & fine adjustments of machine equipment (protections, temperatures, level, etc...)
  - Heat runs with their final documentation.
  - Commissioning of machine's cooling system
  - External companies handling
  - Writing commissioning reports and issue reports

Comissionning Engineer (Emergency Generator / SES&SFC)

INP Schweiz - September 2013 to May 2015 - Full-time - Turgi - Switzerland

- Since February 2014 - Engineering and commissioning of diesel generator sets (Emergency power supply)
  - Establishing genset controller program with PLC (ABB AC500 series/Codesys) and HMI interface (Proface and ABB CP400 series)
  - Schematic drawings (E3 Software)
    On site:
  - System I/O control
  - System parameters adjustment
  - System communication control (Ethernet, Modbus, analog inputs & outputs)
  - HMI display control: Alarms, sequence of events, modes, breakers control...
  - Diesel first tests, control of fuel supply operations
  - Genset real tests (Synchronisation with grid, parallel operations, island operations)
  - Control of emergency power supply operations (Loss of grid voltage).
- September 2013 to January 2014
  Commissioned combined units (excitation system and frequency inverter for gas turbine generator)

Field Service Specialist (AVR / Excitation systems)

BASLER ELECTRIC FRANCE - September 2007 to August 2013 - Full-time - Wasselonne - France

- Commissioned excitation systems, analog and digital voltage regulators for synchronous machines (mostly in power generation field):
  - Adjusted system parameters.
  - Controlled I/O.
  - Set and adjusted annex programs (touch screen, PLC, protective relay...).
  - Set and adjusted controller's PID loop.
  - Performed no load tests.
  - Performed load tests.
  - Made troubleshooting and maintenance.
  - Trained staff on site (French, English and German).
  - Worldwide area: Power plants, marine vessels, oil platforms, industrial process.
- Troubleshooting and maintenance
- Customer support
- Product training on customer's facilities (French, English and German)
- Field area : Power plants, ships, oil platforms, industrial process...
- Since 2013 : trainer at office (French/English/German).
  Gives technical courses about basics of
  - Synchronous machines
  - Power electronics
    Gives hands-on courses about most of Basler digital devices.

After Sale Technician



Cillit, Traitement de l'eau (BWT Group) - September 2004 to August 2007 - Full-time - SCHILTIGHEIM - France

- Commissioned water treatment systems, such as water softeners, automatic filters, inverse osmosis, chlorination system, UV sterilization.
- Commissioned pools water treatment systems, laboratories and industries water treatment systems
- Product training on customer's facilities
- Troubleshooting and maintenance for all systems

INTERESTS

Pictures

- Photography
- Photoshop Elements / Lightroom

Sports

Hiking

EDUCATION

BTS Electrotechnique (Higher National Diploma)

LOUIS COUFFIGNAL HIGH SCHOOL - STRASBOURG

September 2002 to June 2004

2 years of electrical and automation courses.
6 weeks internship by Masterfoods company - Steinbourg .
2 months internship by Basler Electric Company : design and achievement of an electrical system for this diploma.

Baccalauréat STI (A Level)

LOUIS MARCHAL HIGH SCHOOL - MOLSHEIM

September 2000 to June 2002

2 years electrical and automation courses.