

CONTACT

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N'Djamena, Chad

PROFILE

30 years of hands-on field experience across automation, instrumentation, electrical, electronic and mechanical engineering, in Morocco, Cameroon and Chad.

Founder of Synaptics and designer of all its solutions, from the idea to the last technical detail.

CORE SKILLS

Industrial automation: Siemens, ABB, Omron, NUM, ECS, Telemecanique, Eckelmann, Chinese-language PLCs

DCS · SCADA · HMI · Ladder

Instrumentation & calibration · ATEX environments

Industrial electronics · PCB · FPGA · embedded systems · IoT

Industrial mechanics · 7-axis CNC · CAD/CAM · hydraulics · TIG/MIG welding

Industrial refrigeration & cryogenics

Industrial networks · security strategy

Python · Node.js · React · LLM orchestration

EQUIPMENT

Fully equipped with specialised diagnostic and repair tools.

Rapid response; used to working under pressure and in harsh conditions.

LANGUAGES (CEFR)

Arabic — C2

French — C1

English — B2

Adil-Amin ZADNI

Multidisciplinary Engineer & Solution Integration Consultant

Founder & R&D Director — Synaptics Solutions & Technologies SARL

OWN PRODUCTS — DESIGNED AND BUILT END TO END

Cogency — Cogenix.ai (2025)
Multi-agent AI debate platform for decision support and critical analysis: several AI models deliberate, contradict each other and converge on one answer. Web, WhatsApp, Android and SCADA editions. A product of the R&D Department of Synaptics Solutions & Technologies SARL.

TchadGPT (2024)
Chad's first indigenous multi-AI platform, with specialised modules for healthcare, agriculture, renewable energy and the oil industry.

TILEMSI GeoTrack
AI-driven differential topographic surveying: intelligent terrain sampling and real-time 3D modelling, linked to a remote laboratory.

GesCAB
Hospital management suite.

GesLAB
Management suite for medical and physico-chemical analysis laboratories.

PROFESSIONAL EXPERIENCE

2024 — today · Founder & R&D Director — Synaptics Solutions & Technologies SARL, Chad
Leads all research, design and field delivery: AI platforms (TchadGPT, Cogency), industrial automation, SCADA and remote control systems, embedded electronics.

2022 — 2025 · Lecturer, SPE Career Fair — Society of Petroleum Engineers
Annual talks on AI applied to oil & gas and to power production and distribution. Invited again in 2026.

2023 · Vaccine freeze-drying system
Design and construction of a -80 °C vaccine freeze-drying system.

2013 — today · Medical instrumentation
Endoscopy systems, medical lasers, diagnostic equipment: installation, calibration and maintenance.

2006 · Agri-food industrial projects
Design, implementation and assembly of several plants, from medium to high electrical power; PLC automation, electrical cabinets, SCADA.

2004 · 3D design & production lines
Full production-line design and implementation.

1998 · Industrial refrigeration
Design and construction of -20 °C negative-temperature cold rooms.

Heavy mechanics & cryogenics
Liquid-nitrogen cryogenic shrink-fit assemblies of heavy quarry-crusher shafts, down to -196 °C.

1993 · Crushing lines
Industrial assembly of several gravel crushing lines.

1992 · Jorf Lasfar Energy Company, Morocco — 2,051 MW thermal power plant
DCS cabling, connection, calibration and assembly of measuring equipment; assembly and programming of LIMITORQUE motorised valves; VOITH couplings, to the KKS standard.

TEACHING & MENTORING

2025 · Synaptics Professional Training Center — Amdjarass, Chad
Applied computer science for learners from various trades.

2023 · ROUBI Academic Center — N'Djamena, Chad
FPGA programming and modern robotics for young people.

2023 · Kuwaiti Arafat Center — N'Djamena, Chad
Renewable energy applied to industrial refrigeration.

2021 · National Higher Polytechnic School — Maroua, Cameroon
1st- and 3rd-year engineers: industrial computing, computer systems architecture.

2015 · National Advanced School of Engineering — Douala, Cameroon
Engineers of the Electrical Engineering and Robotics departments.

1993 · Chouaïb Doukkali University — El Jadida, Morocco
Mentoring physics-department engineers (quantum mechanics) on the digitalisation of a spectrophotometer.