**Web presentation « Innovation Conseil Ltd »**

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1. **HOME**

Africa continent can‘t develop and transform its economy without upgrading its capacity in terms of scientific research, technology and innovation. This requires putting in place strong national innovation system in partnership with private companies, which led in innovative practices like **Innovation Conseil ltd.**

To meet the ambitions of becoming global actor with diverse projects and client in Africa, innovation conseil have to incubate a number of competitive technologies and competent personal from around the World. So, for solving to this need, it has chosen for an organization of six competences.

1. **ABOUT COMPANY**
2. **Who are we?**

Innovation Conseil Ltd is a consulting, engineering and training firm. We are accompanying with enterprises, organizations and private companies, which operate in Kigali, Bangui and Africa.

**Our mission**

Our vocation is to accompany with our clients in their daily challenges and help them to overcome it through innovative solutions. To carry out the assigned projects entrusted to us by using our skills, knowledge and expertise, in order to bring value and deserve the trust of our customers. We accompany, train, develop and we are committed to tailor-made services!

At Innovation Conseil Ltd, we focus on a high quality offer and on the constant satisfaction of our customers. We make every effort to meet the expectations of our customers. To achieve this we are in a process of perpetual innovation.

The ultimate goal is to achieve success through the provision of workable solutions in your market, in your environment and within your organization.

**Our added value**

Our way of working is based on close collaboration with our partners to create positive synergies leading to concrete results and therefore to the success of their projects. The success of our customers is our own success.

* So, to achieve this, Innovation Conseil Ltd focuses on these key factors:
* Professionalism
* The quality of services
* The reputation and quality of the national and international expertise mobilized
* Compliance with time limits
* Customer relationship management
* Partnership with national and international firms in the field.

*Therefore, let’s dare to meet for a long term partnership!*

1. **Our team**

**Innovation Conseil Ltd, is also professionals who welcome you, listen to you, guide you, advise you and accompany you. Our team of national and international consultants, is helping companies know where they are going, how to optimize their management and how to reach their goals effectively.**

A team of specialized advisers to:

* Welcome you, to listen you and study your needs
* Provide you with reactivity all the necessary solutions on our consulting actions
* Offer you the best reactivity and quality throughout the processing of your file
* Communicate all available trainings and planning for additional sessions
* Validate the registration of training/ consulting and coaching actions for your company
* Offer you the preferential rates depending on the period of training, the number of registrations(inter-company) or on-site training (intra-company)
* Stay in the constant contact from the point of contact to the billing of the training.

1. **OUR SERVICES**
2. **Consulting services**

To support our customers to reveal their growth potential is one of the challenges that the company Innovation Conseil has set itself. To face the great challenges of the development, it is essential for our customers to master not only the formulation mechanisms, implementation and monitoring-evaluation of development programs, but also to take practical steps to make better use of scarce resources for sustained and sustainable growth.

The process of assistance and consulting in project management must contribute to the constant improvement of the quality of services and the identification and risk management process of our clients. Responsive to the challenges and problems specific to each sector of activity, Innovation Conseil plans to develop cutting-edge sectoral skills to implement innovative solutions that can meet the expectations of our partners.

In a rapidly changing World, the entire Innovation Conseil consulting team sets itself the goal of developing and proposing innovative solutions to help companies and organizations in terms of advice and training to manage their main challenges and real business challenges. Our consulting approach is based on a spirit of lasting partnership with our partners.

1. **Engineering activities**

Innovation Conseil Ltd conducts engineering and design assignments in the most diverse fields of industry, energy, transportation, health, environment, infrastructure and building. We put all our expertise and experiences to guaranty you tailor-made and effective solutions whatever the complexity of your projects and missions. We study the projects in their technical, economic and financial aspects. Our company offers you its expertise on the following studies: R&D studies, methods, process, quality, maintenance, purchasing, logistics, technical sales, hygiene, health, safety and environment

**2.1 Project management & Engineering**

In the face of technical, economic, environmental and security requirements, Innovation Conseil accompanies its customers by putting at their disposal a multidisciplinary team and technical solutions. Within the project management framework, Innovation Conseil can integrate or collaborate with specialized or local partners to provide industrial stakeholders with solutions in the area of construction, maintenance and operation, engineering design and system integration. Our goal is to guarantee the satisfaction of our customers.

**R&D Study**

* Technical and economic feasibility
* Preliminary draft
* Upstream study
* Detailed draft
* Execution study
* Design review
* Prototyping (schema, routing, embedded software, integration, validation)
* CE/FCC Certification
* Industrialization

**Project management :**

* Project Management Office (cost, planning, contract, resources)
* Global Risk Management (GRM)
* Configuration management
* Contracts & Supply Chain supervision
* Construction supervision
* Testing and commissioning
* Supervision des arrêts

**2.2 Digital & Performance**

* Becoming a player in digital engineering in Africa is our ambition. Thus, Innovation Conseil accompany its customers in their digital transformation by ensuring the performance of their industrial information system. "Today, a global race has begun to accelerate the transition of the industrial sector to the model of the connected factory called Industry 4.0 or Industry of the future and Africa must not miss the boat! So, Innovation Conseil accompanies African industrial players in their digitalization, because they have to deal with:
* An increasingly competitive global market
* The arrival of innovative technological solutions
* The transformation of the commercial relationship
* Consumption pattern changing

**Why industrial digitization in Africa?**

Quite simply, the stakes are to be more flexible to produce more and more efficient and varied products, to increase productivity while shortening delivery times and optimizing manufacturing costs. However, it is also helping them to be the first to produce an innovative product on the market. We assist them and provide them skills in managing of their industrial digitization.

The world of the Industrial Information System is changing with the advent of digital today present throughout the entire chain of industrialization through the presence of new technologies, data digitization (BIM model design, augmented reality, 3D printing), automata integration, robotics, connected objects, traceability sensors, preventive maintenance sensors and Big data. Innovation Conseil supports its customers in the digitalization of tools, methods and work processes in the industry through end-to-end monitoring of the product design and production chain, the provision of a system of a centralized information system for better access to a knowledge base and shared resources between services.

Innovation Conseil Ltd offers its clients solutions in digital engineering, architecture and integration of industrial information systems:

**INDUSTRIAL CONTROL SYSTEMS**: Integration of equipment and software designed to monitor and control the operation of machine tools and their associated devices in industrial environments.

* Remote control
* Industrial supervision
* Centralized Technical Management & Hypervision

**INDUSTRIAL DIGITALIZATION**: digitization of industrial processes from end to end of the chain (receipt of orders, manufacturing, delivery, inventory management…) and the provision of a centralized information system to have at all times a shared knowledge base and resources regardless of the service (Consultancy, workshop, quality, sales, after-sales service).

* Industrial data engineering
* Digital Working
* Industrial Data Sciences
* Robotics

**DIGITAL ENGINEERING:**

* System Engineering
* Platform and data architecture
* Digital Twin
* BIM(Building Information Mode)
* PLM (Product Lifecycle Management)

**2.3 Security & Safety**

Innovation Conseil wishes to support its clients in the industrial and tertiary world with a global security approach. Thus, it offers them a global approach combining safety and security including industrial cybersecurity, functional safety, operational safety and the risk of explosions.

* Industrial Cybersecurity
* Security / Site protection
* Centralized Technical Management & Hypervision
* Functional Security
* Operation sureness
* Industrial Cybersecurity
* ATEX risk analysis
* Assistance to the realization of the DRPCE (Relative Document for the Protection against Explosions)
* Audit
* ATEX - European Certification
* Evaluation and control of the electrostatic phenomenon

**3. Training activities**

The trainings that we propose you group:

**EMBEDDED ELECTRONICS:**

* Design, development and coding (CAD): digital electronic boards or analog microcontrollers, DSP or FGA
* Embedded software development developed in C, C ++ or Java languages.
* Validation and integration
* Communication bus: CAN, RS232, I2C, MOST SPI, RFID, etc.
* In connected equipment: Bluetooth, Wifi, ZigBee, etc.

**INDUSTRIAL CONTROL SYSTEMS**

* Remote control
* Industrial supervision
* Centralized Technical Management & Hypervision

**INDUSTRIAL DIGITALIZATION**

* Industrial data engineering
* Digital Working
* Industrial Data Sciences
* Robotics

**Security and Safety**

* Industrial Cybersecurity
* Security / Site protection
* Centralized Technical Management & Hypervision
* Functional safety | Quali- SIL
* Operation sureness

**DIGITAL ENGINEERING**

* System Engineering
* Platform and data architecture
* Digital Twin
* BIM (Building Information Model)
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**EXPLOSIBLE ATMOSPHERES**

* ATEX regulations
* ATEX / IECEx: the materials usable in ATEX (Manufacturers and Constructors)
* Risk assessment and classification of ATEX zones.
* Ism-ATEX electrical: to be trainer according to the reference system.
* Ism-ATEX non-electric: to be trainer according to the reference system.
* Saqr-ATEX: repair of ATEX equipment.

**QUALITY - HEALTH - SAFETY - ENVIRONMENT**

* Quality
* Integrated QSE system
* Health / Safety and Environmental Approach

**AIRPORT MANAGEMENT**

* Quality and Management of safety and security,
* Multidimensional data analysis,
* Management and Quality Audit,

Aerodrome Certification

1. **POLES OF COMPETENCES**

#### 1. Electronics & Onboard systems

Innovation Conseil offers its customers all its knowledge in embedded systems to design reliable electronic products that meet all the constraints of consumption, real time and integration. This field of expertise includes sequential and real-time computer logical processes, system and software engineering and all telecommunication protocols. With our multidisciplinary team, our company aims to establish itself as a reference player for the study and realization of turnkey electronic systems in Africa.

Innovation Conseil manages all the critical phases of your projects while guaranteeing quality control, costs and deadlines. We build with you the solutions adapted to your needs by combining technical approach and industrial approach from the design stage which is necessary for the putting into production and maintenance of your communicating systems.

**From study to realization**: Innovation Conseil Ltd assists you in the design, implementation, production and maintenance of subsystems and complete systems under operational conditions Technico-economic studies, Elaboration of specifications, operation sureness studies, Realization (design / routing), Tests and debugging, Validation and Qualification, Homologation, Industrialization, Production prototypes and series, Watch and treatment of obsolescence.

**Electronic expertise for the design**: Analog Digital Mixed Boards, Analog Cards, COTS / Customized Mixed Boards, Motherboards - CPU Boards, Control / Command Boards, Backplane Boards, Packing Cards, FPGAs.

**Embedded software expertise:** Realization and integration Bootloader, Realization drivers and integration BSP, Realization software embedded business, Networks and telecommunications

This pole covers innovative embedded technologies:

* Specification and architecture
* Design, development and coding: digital or analog electronic boards based on microcontrollers, DSP or FGA and embedded software developed in C, C ++ or Java languages.
* Validation and integration of communicating systems

Within this, added skills are in:

* Communication bus: CAN, RS232, I2C, MOST SPI, RFID, etc.
* In connected equipment: Bluetooth, Wifi, ZigBee, etc.

#### 2. Mechanics & Process

This division implements product and process development and design skills while guaranteeing high added value support in the following areas: Studies, Calculation, Simulations, Design, Materials, Testing and Quality. This implies taking into account the constraints of mechanical or thermal sizing with particulary using CAD tools (Catia, Solidworks, AutoCAD) and / or calculation (finite elements: Ansys, Radioss or Abaqus).

#### Industrial computing & controlling systems control

This cluster encompasses the development of projects such as:

* The design and development of test bench management software with the use of programming languages such as C, C ++, Java or j2se on Windows, Lab windows, Unix or Linux.
* The modeling of physical phenomena, the propagation and the laws of behavior of materials.Added to this are skills in Instrumentation and Control Command.

#### 4. Chemistry & Biology

#### The fields of pharmaceutical engineering, biotechnology engineering, and life sciences engineering should not be put aside if Africa is to respond to the major technological challenges in the field of health and the fight against diseases. This department supports our customers in the management of production unit design issues, pharmaceutical process techniques, clean room design, production optimization, HSE, Process support, laboratories.

Innovation Conseil is also involved in process audits, recommendations for FDA compliance, definition of equipment and support for technological choices.

#### 5. Quality management & Consulting

The Quality Management and Consulting division enables Innovation Conseil to support its customers while taking charge of their industrial projects as a whole and to ensure the conduct of both organizational and technical activities. We offer them a quality or continuous improvement approach in order to increase the quality of their production and organization:

* - Accompaniment to the implementation of an ISO 9001 certification:
* - Realization of an ISO 9001 follow-up audit

Our Consulting activity enables us to manage projects in terms of change management, systems deployment, tools and methods, Quality, technical support and Audit.

#### 6. Explosible Atmospheres

The Atmospheres Explosibles (ATEX) division enables Innovation Conseil to provide its expertise to help its customers apply ATEX regulations and perform ATEX assessment, risk analysis and zoning of their installations and some of their products concerned. We help them to have the necessary skills:

* According to the ATEX Directive 2014/34 / EU on the essential health and safety, requirements to be met by protective devices and systems intended for use in potentially explosive atmospheres and the means to demonstrate compliance of these devices and protective systems with repositories.
* According to Directive 1999/92 / EC on the protection of their employees against the risks of explosion which must be evaluated while taking into account the probability of occurrence of explosive atmospheres, the probability of occurrence of sources of ignition, used substances, processes and their possible interactions, as soon as the equipment is installed and the extent of the foreseeable consequences.