

Instrumentation and Industrial Maintenance Engineer, INSAT

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STUDIES/ DIPLOMAS

January 2010

- **Engineering National Diploma in Instrumentation and Industrial Maintenance from the « Institut National des Sciences Appliquées et de Technologie » INSAT-Tunis.**

June 2004

- **High School Diploma (Technical High School).**

PROFESSIONAL EXPERIENCES

From 17/05/2010 until now

- **B4CREATION SARL – PANASONIC FACTORY SOLUTIONS COMPANY.**

Job: **Field Service Engineer.**

- Company providing services for Electronic industry, major customers (SAGEMCOM, JOHNSON CONTROLS, CIPI, GLOBE-TECHNOLOGIE, ABS-SAMSUNG, ELEONETECH, LEAR Corp).
- Installation of machinery placing Surface Mount Device (SMD) PANASONIC.
- Installation of screen printing machines PANASONIC.
- Maintenance, Intervention and Customer Training on PANASONIC machines.
- Factory Analysis in SMT area and 5S.
- Simulation with PanaPro, PT200 and DGS.
- Installation and support of PANASONIC traceability system (PanaCIM).
- Knowledge in manufacturing process of Printed Circuit Boards (PCB, Screen Printing, Mounting Machines, SPI, AOI , Reflow and Insertion).

From 01/08/2009 to 14/01/2010

- **EPPM (Engineering Procurement and Project Management).**

Job: **Instrumentation Engineer (Trainee).**

Development of an automation and control system of an air-cooled heat exchanger unit:

- Upgrade of the P&ID plans.
- Operation analysis.
- Control of electric plans.
- Thermodynamic study.
- Development of the control system SCADA with initiation in programming SIEMENS's PLC.

TRAININGS

From 01/06/08 to 30/06/08

- **PREVENTEC in Tunis.**

Technical assistance in the control of electrical installations, fire control, control of devices with air compression and steam, and realization of evacuation plans.

From 01/06/06 to 30/06/06

- **TUNISAIR in Djerba.**

Technical assistance in the maintenance of TUNISAIR's aircrafts, assistance in carrying out the visits (daily and weekly) and supervision of specific operations (Refuelling, Catering...).

PROJECTS REALIZED

February 2009 – March 2009

- **Participation in the entrepreneurship challenge.**

Development of business plan of a company specialized in the installation of photo voltaic plants.

January 2009 – April 2009

- **Project in the Instrumentation and Maintenance Club "CIM-INSAT" : Development of an electronic display.**

Development of an electronic display with LED matrix containing a clock, a thermometer, an hygrometer and supplied by photo voltaic cells.

March 2009 – April 2009

- **Project in the Instrumentation and Maintenance Club "CIM-INSAT" : Development of a LED flashing signboard.**

Conception and realization of the electronic card, programming of the PIC 16F88 micro controller.

September 2006 – January 2007

- **Realization of force sensor.**

Development of a force sensor based on strain gauges, simulation and study of constraints applied to the tests.

TECHNICAL KNOWLEDGE

Instrumentation

- **Handling of Sensors** (thermocouples, force sensors, pressure sensors, level sensors...).
- **Electrical Apparatus** (electrical measuring devices, power protection devices, programming of Motorola processors 6809 (with PIA and ACIA), Programming SIEMENS's PLC).
- **Electrical Plans** (Single Line Diagram, Outline Drawing, Motor Control Center...).
- **P&ID** (Piping and Instrumentation Diagram).
- **Signal Treatment and Transmission.**
- **Image Processing.**
- **Background in Optronics.**
- **Automatics.**

Industrial Maintenance

- **Maintenance Policy** (Preventive, Corrective).
- **Maintenance Management Tools** (CMMS, FMEA).
- **Non Destructive Testing** (Vibration Analysis, Thermography, Ultrasonic Analysis, Magnetic Analysis...).
- **Background in refrigeration** (heat pump, CTA...).
- **Background in rotating machinery** (MCC, Synchronous/Asynchronous Motors).
- Dependability and Reliability Tests.
- **Background in Electromagnetic Compatibility.**
- **Power and Analog Electronics.**
- **Thermodynamics, Heat Transfer and Fluid.**
- **Mechanical and RDM.**
- **Quality** (six sigma and control charts).

LANGUAGE

- **Arabic** : native language.
- **English** : good level.
- **French** : fluent (reading, writing and speaking).

COMPUTING SKILLS

MS Office (all versions), SolidWorks, Autocad, PanaPro, DGS, PT200, PanaCIM, Visual Basic, ORCAD, Proteus, C, Matlab, STEP7, PL7, CorelDRAW, Photoshop.

EXTRACURRICULAR ACTIVITIES

- Associations & Clubs : President of Instrumentation Maintenance Club CIM in the INSAT 2008/2009.
- Member of the Nano Eco Tec Association.
- Sports Activities : Football, handball (4 saisons in the club DHC), swimming and footing.
- Hobbies : Traveling (France, Germany, Singapore, Morocco), Spearfishing, Formule 1, Rugby...