CURRICULUM VITAE
EMBEDDED SYSTEMS ENGINEER

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My adaptability, listening, teamwork, my dynamism and my motivation are qualities which I take in my work while hoping that my training and experience may be sufficient for my candidacy.

PROFESSIONAL EXPERIENCE

Since January 2015 : HW/SW Engineer at Tunisian Embedded Systems :

Tasks :

- Project management.
- Development and project management in the context of teamwork.
- Administratively assist the company's management.
- Trainees supervision.

Projects :

- DataShow Player Plateform for modernization of education.
- Platform of dynamic displays for advertising space.
- Visual management platform for industrial chains (GPIO).
- Roads quality inspection.
- Real time video streaming and GPS tracking for public transportation.

Most used technologies:

- Embedded Platforms (Raspberry Pi ..)
- Linux
- Python
- C# (.Net)
- Android
- Databases
- Webservices
- Proteus Isis (PCB Design)
- Technical documentation and user manuals preparation.

Since April 2015 : Technical reveiwer at PACKT Publishing (India) :

- Technical review for the book : Yocto for Raspberry Pi.

September 2014 – December 2015: Technical Sales Engineer at Security Sourcing and Traning, SST Tunis.

- Study and response to tenders in the electronic security field.
- Participation in customer training sessions.
- Preparation of technical documents for new products.

February – May 2014 : End study project at AFRIVISION SONY :

Design, development and integration of an embedded solution for productivity management and quality control of industrial chains
Mot clefs : Linux, Python, Raspberry Pi, ARM, Ethernet, Visual Management, IHM/GUI.

September to December 2013 : Preparation of platform for competition between miniatures cars, in collaboration with the Industrial Electronics Engineering Department at The ENISO.

- Design and specifications of preparation.
- Making the necessary platform for the competition.
- Preparation of a prototype.

June-July 2013 : Engineer internship at Domotique Tunisia :

- Studying home automation systems.
- Programming of Urmet home automation equipment / Elkron group.
- Studying and programming SST home automation equipments.
- Study of the EIB / KNX protocol.
- Creation of Smart Home model using EIB / KNX protocol under the ETS software and programming of different Smart Grids.
- Studying of a specific customer need and proposing custom solutions:
  -Solution1: Using EIB / KNX protocol. Custom
  -Solution2: an electronic board allowing for the automatic management (or manuals according to customer desire) of the various home automation equipments.

June 2012 : Trainee at tobacco factory of Kairouan.

EDUCATION

June 2014 : National engineering degree in "Industrial Electronics Engineering"
Conception of electronic systems.

2011-2014 : National Engineering School of Sousse (ENISO)

- Engineering course «Industrial Electronics Engineering»
- Research Master in "intelligent and communicative systems"
  Option 'Embedded Electronic Systems'.

June 2011 : University degree in physics and chemistry..

2008-2011 : Preparatory School for engineering studies (PC) at ISMAIK.

2007-2008 : Baccalaureate: Experimental Sciences.

SKILLS

Langages :

PYTHON, C/C#, MySQL, PHP, Android, Java, SystemC, VHDL, VHDL AMS, Assembly, MatLab.

Technologies :

Microcontrollers, DSP, FPGA (Altera, Xilinx, Actel).

Tools / IDEs:

Altium designer, QT designer, PyQT4, Xilinx ISE, Quartus, Modelsim, IAR Embedded workbensh, Orcad, Eagle, Isis, Flowcode, MatLab-Simulink, CC Studio, Visual Studio, Eclipse.

Operating Systems:

Windows, Linux, Raspbian.

Knowledge / Methods:

IOT, Databases, webservices, Artificial intelligence, ARM, Embedded Systems, Test of digital and analog integrated circuits, SOC&NOC, Mesure & instrumentation, EMC, Data and information coding, OSI Architecture TCP/IP, wordpress.

ACADEMIC PROJECTS

- Development of an image processing editor on MatLab (GUI)
- Design and implementation of an electronic PCB (MCUs).
- Development of an administrative control application that interact with customer satisfaction (java).
- Development of an intelligent system (fuzzy logic and neural network).
- Designing an embedded system for power management that use two renewable energy sources (wind and photovoltaic panel).
- Adaptation and configuration of softcore Leon3 (programmed in VHDL) with Altera FPGA ep3c120.
- Audio processing with DSP..

CERTIFICATIONS

- Certified training in electronic safety systes at SST :
  - Alarm systems
  - Pointing solutions
  - Video surveillance
  - Fire detection
- **GOLD** Certification on alarms systems programming at SPECTRUM COMMUNICATIONS.

INTELLECTUAL PROPERTY

June 2014 : Patent of invention of DATA-SHOW PLAYER © TN2014/0284 :

- Project development..
- Preparation of the patent folder: Texts, technical drawings …
- Preparation of the prototype and datasheets.

IN PROGRESS

Online training at : www.udacity.com:

- Parallel Programming.
- Artificial intelligence.

Others :

- Yocto.
- StartUP and business creation.

Human Languages: Arabe, Frensh and English.

LOISIRS : Iot, open source, new technologies, ICT.

Driver's license: A1, B, H.