

This CV is anonymous for security purposes - In order to obtain access to this candidate, you must be an identified business

Radio / IT Development engineer

My first objective is to work in an English speaking country.

The ideal position would be IT Developer in a radio-communication context. Example : Development of services over GSM/GPRS/EDGE, UMTS or TETRA networks.

Work experience

Since
March 2008

SOFTWARE ENGINEER ON TETRA NETWORKS

Mission: Work placement :

Development of an Alerts Management System for TETRA networks
Development of a demonstration system for data transmissions solutions on TETRA networks.
Presentations and training courses for customers on Short Data Applications
Integrated and installed the TETRA network of Villeurbanne city
Development of a SMS(GSM)-SDS(TETRA) Gateway

Means: Visual Basic 2008

Development of Windows services
embedded Visual Basic
Development of Graphical User Interfaces
Administration of TETRA networks
Customer relationship
GSM modem managing
TETRA terminals programming and managing.

Appraisal: TETRA norm

.NET programming
TETRA Administration

September 2007
March 2008

RF DESIGN ENGINEER (School project)

Mission: PERSEUS Project with CNES (Spatial Studies National Center) :

- Design of the transmission line between Earth and the nano-satellite
- Design of the RF side from functional specifications (BER, throughput, distances...)
- Design of the data side (on Xilinx FPGA)
- Chooosed RF components
- Simulations and validation

Means: Agilent ADS, Xilinx, Matlab, Simulink, appCAD

FPGA programming
CCSDS specifications (Consultative Committee for Space Data Systems)
Modulations (BPSK, QPSK, 8PSK)
Error Correction Codes
RF filters
Intermodulation
Power transmission budget
Amplification...

Appraisal: RF Design & simulation

FPGA programming

June 2007
September 2007

RESEARCH & DEVELOPMENT ENGINEER

DCU - RF Modelling and Simulation Group

Mission: Radio waves propagation simulation software for urban areas by raytracing :

- Translated the original C++ code into Java to use Java3D libraries
- Research on Uniform Theory of Diffraction (UTD)
- Computed UTD using Java & Java3D
- Tests and validations

Means: C++, Java & Java3D (for rendering and computing purposes)

Research on methods to minimize computing time (geometrical tips for computing reflections and diffractions, visibility matrix...)

Matlab, Simulink

September 2004
July 2005

ELECTRONICS SYSTEMS DESIGN ENGINEER (School project)

Lycée professionnel des Portes de l'Oisans (school)

Mission: Design and development of a home automation system with alarms :

- Design of the wireless fire detection system (sensors management with an embedded micro-controller)
- Design of the data transmission protocol at 433MHz
- Design of the core system (keypad for PIN code, GUI on LCD display, anti-intrusion infra-red gate, backup battery and alarm siren)
- Tests and validation process

Means: Micro-controllers

Basic and C languages

Data transmission protocols

Embedded systems

LCD displays

Sensors management

Power consumption management

Appraisal: Micro-controllers

Embedded Systems

Diplomas and education

Since
September 2005

ESIGETEL (Top French Engineering School)

IT and Telecommunications Engineer Diploma

Analog and digital signal processing

Network protocols and administration

Electronics

Embedded systems

IT

Real-time

RF design

Radio networks norms

Telephony

Area of specialisation: Radio-communications and Mobiles

September 2003
July 2005

Lycée des Portes de l'Oisans

BTEC HND Electronics Systems

Micro-Electronics

FPGA programming

RF design

Area of specialisation: Networks

Computing skills

Software

Visual Studio 2008
Matlab & Simulink
Agilent ADS
Spice
Xilinx
Atoll

Languages

Java & Java3D
Visual Basic
C++
C
Assembly
VHDL

Additional information

Office Suite 2007
Linux, Windows, Unix, Sun platforms

Language skills

French

Speaking competence: Native speaker, **Written competence:** Native speaker

English

Speaking competence: Fluent, **Written competence:** Fluent

Spanish

Speaking competence: Intermediate, **Written competence:** Intermediate

Various

Folk Guitar

During 10 years

Football

During 9 years

Snowboard & Ski

During 25 years