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Avionic Design Engineer

I'm an accomplished Hardware and Software engineer specializing in aeronautical product. With an experience in the full life cycle of aeronautical product including requirements definition, prototype, proof of concept, embedded software design, hardware design, interface implementation, testing.

Work experience

Since
August 2007

Design Engineer

Mission: I got two assignation on the company, quality engineer and design engineer.

My main task is to set-up a basic quality system for the entire maintenance job. (3 bases, 6 on-line bases, 11 helicopters)

On the main time, I also produce installation document for aircraft modification (alouette3, lama, AS350, and Mil Mi171), and submit them for approval at the Peruvian DGAC.

Appraisal: Software: Word, Excel, AutoCAD, Acrobat, Photoshop.

October 2005
July 2007

Senior Design Engineer

Mission: I join the Design Office of Eurocopter Malaysia as an avionic Design Engineer.

I was assigned to produce installation document, electrical and mechanical drawing for Aircraft modification, upgrade or retrofit.

The document produced was used, to carry the work and submit for approval at the Malaysian DCA or at FAA.

I was involved to produce documents for the following Eurocopter model: EC120, AS350 Series, EC135, and AS365.

I also provide technical information, instructions and advices to engineering personnel as and when required.

Appraisal: Software used to produce the documentation and drawing:
Word, Excel, AutoCAD, Catia V5, Acrobat, Photoshop.

January 2004
September 2005

Chief Technical Officer

Techniair Sdn Bhd - Malaysia

Mission: As a position of Chief Technical Officer, this company was created in October 2003 to do avionics design.

During these 20 months, I've managed the company on the technical side.

I was assigned to

- Team supervision,
- Producing all the basics specification,
- Made the draft copy of all schematics and made the selection of all main component,
- Sourcing sub-contractor for design and production,
- Hardware debugging and embedded software producing,
- Test bench producing (hardware and software),

Appraisal: We have managed, to reply on some RFQ (requisition for Quote) for one of our customer: HAL (India). So far, Techniair has been selected for one contract.

Software Language: C, Lab Windows CVI, Assembly for Renesas.

Software: Word, OrCAD, Acrobat, Photoshop.

Hardware: Microprocessor interface, hardware architecture, PC Interface.

January 2001
December 2003

Software Engineer

ECT (Euro Cockpit Technology): Soyons FRANCE

Mission: For this company, I was Assigned to specify and encoded the full embedded software of the Monitair VE6 and to test and rectify the hardware.

As soon as the first prototype was working, I was assigned to follow the full Do-160 qualification (vibration, EMI-EMC, Humidity, Temperature...) of the product.

I help other people in PC software specification, Hardware modification and Helicopter adaptation for this product.

I specify and encoded the full embedded software for the UMS product specifies for French army.

On the second years, I did supervise the full qualification of the same product on military grade, in different French army offices. (CEV Istres, and CEAT Toulouse).

During the last year I did the installation for this product on different types of helicopter for testing and demonstration on the accuracy in different country for army (Jordan and India) and also for civil operator (Bolivia, Peru, Austria ...).

Appraisal: I was in charge during 2002 and 2003 of the technical request of our Indian customer (HAL). I've managed all the technical side of this contract until ECT got the deal.

July 1998
December 2000

Software Engineer

Ascom monetel Guiherand FRANCE

Mission: - Test Bench division for Public Transport.

During these two years I've worked to produce two test benches for the production centre.

I was in charge to produce the specification. Then I was finally in charge to design the mechanical, electronic and software aspect of the two Tests Bench.

- Embedded Software application division.

During this year I was in charge of the application software for different customer in France and Europe.

This product I was involved was mainly validation ticket machine, magnetic and less-contact (mikron technology).

Appraisal: Software Language: C, Lab Windows CVI, Assembly for Motorola ,

Software: Word, LotusNote, OrCAD.

Systems: Windows Families, UNIX (HP-UX & SUN Solaris).

Hardware: Microprocessor interface, hardware architecture, PC Interface.

Diplomas and education

September 1996
July 1997

Higher Institute of Engineering in Advanced Industrial Systems Rhône-Alpes - ESISAR / INPG

ESISAR responds to the latest demands of companies requiring polyvalent engineers with the necessary skills to design and set up advanced systems, notably in electronics, automation, and industrial computing.

September 1994
July 1996

Degree IUT - Technology University Institute VALENCE / Option: Embedded software for industry. (ISI)

Embedded software for industry. (ISI)

September 1991
July 1993

Baccalauréat F3 (A-levels) Lycée Saint Louis - Crest

F3: Electronic, Electric, mechanic and Electromechanic

Computing skills

Software

Word, Excel, AutoCAD, OrCAD, Catia V5, Acrobat, Photoshop.
Systems: Windows Families, UNIX (HP-UX & SUN Solaris).

Languages

Software Language: ADA, C, Lab Windows CVI, JAVA, Assembly for Motorola , Renesas, microchip and Intel
Microcontrollers family, UNIX (shell, Awk...).

Additional information

Hardware: Microprocessor interface, hardware architecture, PC Interface.

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