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Structural Designer in Reinforced Concrete

I like technical challenges and team work.

Structural engineering and especially value engineering offer the best challenges. I wish to have a position where I could use my technical know-how and keep on improving my skills.

Work experience

Since
April 2007

Structural Engineer in Value-Engineering

Mission: Main projects : Burj Dubai Underground Car Park, Motorcity (housing), Malls

o Structural analysis: beams, columns and slabs design.

o Modification of plans to include our technical solutions (with European method such as precast elements.)

o Design of precast beams

o Reinforcement drawings

o Details drawings

o Development of architectural projects and preliminary reports in value engineering.

Means: All drawings designed with Autocad.

Appraisal: I improved my skills in value-engineering and use of precast elements.

I studied British Standards use locally for calculations.

May 2006
September 2006

Designer in Reinforced Concrete

Mission: Main projects : Housing and Hospital Buildings

o Meetings with architects to choose most efficient and lowest costs solutions.

o Analysis and design of beams, slabs and columns.

o Plans of formwork, reinforcement, and details.

o All drawings designed with Autocad.

o GRAITEC 'Arche' software used to model load transmissions and seismic analysis.

Means: Software "Autocad" used for the plans of formwork and "Arch" (Graitec) for calculations and slab/beams reinforcement.

Appraisal: Improvement of my calculation methods, participation in the choice of the adopted technical solutions.

June 2005
June 2006

Technical teacher and speaker (70 hours/year)

Chamber of Commerce and Industry of Grenoble

Mission: Teacher in CAD with the software Autocad applied to construction and design field.
Technical speaker for student's projects

- o Teaching drawing basics applied to building construction and civil engineering.
- o Autocad advanced functions.
- o Applied studies starting from real projects.
- o Adjustment of self-correcting methods.
- o Guidance for end-of-year projects: organization, choice of technical solutions, the calculation methodology.

Means: "Autocad" advanced functions
Training projects

Appraisal: I had to answer to the various questions of my students.
I had to study autocad commands and tools in detail and explain to the students the logic of design to use Autocad in a efficient way.

October 2004
April 2006

Draftsman in Reinforced Concrete

BETREC

Mission: Tender drawings, construction and details drawings of reinforced concrete.

Main projets : Retirement homes and housing buildings, retention pond

- o Plans of formwork, reinforcement and details.
- o Plans of slabs's reinforcement.
- o Plans of footings and foundations.

Means: Software "Autocad"
Autolisp routines
Work with time and precision objectives.

Appraisal: To achieve my objectives, I had to improve my working methods, learn how to correct myself and inform me about the existing products and their implementation (as precast elements)

April 2003
September 2004

Draftsman

Groupe Delta

Mission: Main projets : Montain resorts, hospital expansion, commercial buildings such as garden-centers and warehouses (metal framework in reinforced concrete base).

- o Plans of formwork and reinforcement (CAD and hand-drawing).
- o Easy design of beams: beams, short columns and cantilever
- o Coordination plans (between MEP and structure drawings)
- o Plans of slabs's reinforcement starting from software's calculation (Arche, Graitec).

Means: Work out of tandem with an experienced draftsman.
Visit building site to see the implementation of the reinforcements
Autocad, Arche and other reinforced concrete structure calculation software used.

Appraisal: Learning of the bases of the drawing specific to the reinforced concrete.

Diplomas and education

March 2003
March 2005

Eyrolles

Diploma of Designer in Reinforced Concrete by evening courses, studies made in addition to my full-time work.

Program:

- Technology of building
- Mechanics of materials
- Structural design
- Calculation with BAEL 91 rules
- Reinforcement calculation for elements such as beams, columns, slabs, cantilever, load-bearing walls...
- Plans of formwork/reinforcement

Area of specialisation: Reinforced Concrete

September 1999
June 2002

Joseph Fourier University

University grade of technology in physical measurements:

- resistance of materials
- mechanics of solids
- study of the matter
- chemistry
- electronics and measurements

Area of specialisation: Materials tests

Computing skills

Software

drafting: Autocad, Revit Structure
calculation: Arche (Graitec), Etabs
office automation: Word, Excel, MS Project

Languages

LISP and VBA programming.
Excel Spreadsheet used for repetitive calculations.

Language skills

French

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

English

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

Various

Strategy games

The less luck, the more strategy, those games are very famous in Europe, and a little bit in USA.

Sports

- Laser Tag and trekking: weekly from 1999 to 2006
- Skiing for 20 years
- Paragliding: level 1 passed in 2003
- Triathlon (Swimming, bicycling and running) for 3 years (2003 to 2005)
- Martial arts: bozendo and taijitsu (from 2000 to 2003)

I enjoy practice sports.

I am still practicing Squash, swimming and some trekking in Oman

Chess

Championship of France mixed team in 1998

I keep on playing regularly