

Dimitri VOISIN

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For more details consult my CV
on-line:
www.voisin.name

Born 8th April 1973 (France)
French nationality
Clean driving licence
Married, 1 child (10 years old)

OBJECTIVE

To work in the following activities: **environment, energy, aerodynamic and wind engineering**, or any other kind of industrial project which draws on my experience

PROFESSIONAL EXPERIENCE

2003/04

6 months

(Nov. 03 to Apr. 04)

Environment and Wind Engineering Department - CSTB (Scientific & Technical French Center for Building Research) Nantes, France

Research Engineer

- Product Development: aerodynamical solutions to increase tower crane safety

2000/03

3 years

POTAIN (World leader in the tower crane industry) & **CSTB**

PhD Thesis: "Study of Tower Crane Behaviour in Storm Wind"

- The aim of this study was to understand and characterize tower crane behaviour in storm wind, in order to reduce the risk of overturning
- **Physical approach:** a large part of the job was to find and improve a method to reproduce the tower crane behaviour at model scale in a **wind tunnel**
- Development of numerical model using **MATLAB & FLUENT**
- **Standard Study** of wind actions on structures (Eurocode, ASCE, NF, FEM, ESDU ...)
- **Skills in Tower crane, Boundary layer wind tunnel, Boundary layer meteorology, Fluid/Structure interaction, Wind loads, Similarity law, Truss & slender structure, Structure mechanic, Strain gauge balance**

1998/99

16 months

FRENCH EMBASSY OF VARSAW, Poland

Deputy Scientific Attaché (during National Service Period)

- In charge of management, selection, promotion for POLONIUM (bilateral scientific projects between FRANCE and POLAND) (165 research projects per year, budget : 420000 \$)
- Good knowledge of all research Polish research institutes and scientists

1997

2 months

Packer for ASDA Oxford, UK.

- Working in UK was a good experience to improve my english

1997

6 months

ECOLE DES MINES DE NANTES (a top engineering school in France) – Department of Energy Systems and Environment

Research training period

- Simulation of air jets in transverse flows using low Reynolds K-ε models
- Gained useful experience in research and data simulation using **FLUENT CFD** Software

1991/92/93

5 months

Sailing instructor at **GLENANS** (a sailing club based in Brittany and Ireland)

QUALIFICATIONS

- 2000-03** *PhD in Mechanical and Aerodynamical Engineering* - University of Nantes (France)
- 1996-97** *Diplôme d'études approfondies (D.E.A.) (equivalent of M.Phil.)* - University of Nantes (France)
In Heat Transfer, Energy and Chemical Engineering, specialized in energy, fluid mechanics, heat and mass transfers and experimental fluid mechanics (high technology sensor).
- 1992-96** *Maîtrise de Mécanique (4 years degree equivalent to first degree in science including a project in laboratory)* - University of Pierre & Marie Curie, Paris VI (France)
Main course components: Fluid and solid mechanics, Vibrations, Instrumentation, Electronics, Thermal Science and Numerical Methods.

LANGUAGES

French	Mother tongue
English	Good writing, speaking and reading level
Polish	Basic speaking level

COMPUTER SKILLS

Operating system	Windows NT, MS-DOS, UNIX
Software	Matlab, Autocad, Office XP, Dreamweaver, WAsP, Mapinfo
Programming language	Turbo-Pascal, Fortran, HTML, ASP, MySQL
CFD	Fluent

REFEREES

- Camille SOLLIEC,** *Associate Professor (PhD supervisor) - Ecole des Mines de Nantes*
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- Gérard GRILLAUD,** *Director of Environment and Wind Engineering Department - CSTB*
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- Giovanni DE MICHELI,** *Professor, Dept. of Electrical Engineering and, by courtesy, of Computer Science, Stanford*
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LIST OF PUBLICATIONS

- D. Voisin - *Etude des effets du vent sur les grues à tour* - Thesis submitted for the degree of Doctor of Mechanical and Aerodynamical Engineering, December 2003
- D. Voisin, G. Grillaud, C. Solliec, A. Beley-Sayettat, J-L Berlaud, A. Miton - *Wind tunnel test method to study out-of-service tower crane behaviour in storm winds* - Journal of Wind Engineering & Industrial Aerodynamics - Vol 92/7-8, june 2004, pp 687-697 (And also a presentation at the 11th ICWE, Lubbock Texas, 2003)

OTHERS ACTIVITIES

Sailing with GLENANS Sailing Club and wind-surfing
Skiing & Rock climbing and many mountain excursions
Restoring old cars and motorbikes