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Space Systems Engineer (MSc ...

University (6 years completed) - Junior
2311 HW Leiden
South Holland
Netherlands

Graduated from a French aerospace engineering school (5-year programme) in 2006, I have been awarded an MSc in Aerospace Engineering (Kingston University, London) in October 2007. I am now working as a support engineer within the European Space Agency. As you can see in my CV, I already have a good working experience in many fields from the design department to the assembly unit. I also have a good knowledge in many technical fields (turbomachinery, CFD, CAD/CAM, etc.) as well as noticeable skills in other fields such as finance resource management, information systems, legal obligations, etc. I'm the cofounder of AeroIPSA, a rocketry association which design, build and launch experimental rockets in cooperation with the CNES (French Space Agency). That helped me to improve both my technical and communication skills. I'm currently looking for a multidisciplinary position (AIT, payload or system engineer) starting July 2009. My CV below will give you more information concerning my experience and skills. Please feel free to contact me if you need more details.

Work experience

Since
June 2008 **Rexus-Bexus Support Engineer**
Mission : .

January 2008
May 2008 **Production Engineer (NH90 final assembly line)**
Mission : .

June 2007
June 2007 **Paris Show '07 - Assistant on the U.S. Pavillon**
Mission : Organization and management of the U.S. International Chalet (security, maintenance, client satisfaction).

March 2006
September 2006 **End of study Engeneer Internship**
Mission : CFD modelisation of ballistic shockwaves and their interrraction with airborne target structure (SECAPEM targets).
Application to Miss Distance Indicator Systems.
Means : Fluent6 & Gambit: 1 week training within the developper premicies Fluent France.
Autonomous work, frequent reporting to management and ONERA Labs.
Appraisal : Successful evaluation of the software.
Solution provided (geometry, mesh, methodology and code) to the ONERA for further investigations.

December 2005
March 2006 **End of study Project**
Mission : Shock wave propagation modelling on airborne targets.
Means : Fluent6/Gambit.
Appraisal : Working hypothesis validation.
Comparison beetween Fluent Results and shooting tests.

- June 2005
September 2005 **Internship: Aerothermochemistry and Combustion Laboratory**
Mission : Propulsion nozzle flow study.
Chamber ballistic servo-control Fortran programming (PID loop).
Means : Work under Linux environnement.
Modelling handled with Simail and CPS solver.
Appraisal : Shock section clearly located.
Functionnal PID loop.
- June 2005
June 2005 **Paris Air Show '05 - Trade Assistant**
Mission : Trade Aide within the U.S. Embassies Department of Commerce's Pathfinder Program.
Appraisal : Contracts and Contacts obtained by Electro Adapter representative.
- November 2004
February 2005 **Industrial Project: Engineering and Scale Models Dpt (DRIM)**
Mission : Design of an air probe roll head device (wing-tunnel rebuilding project).
Means : Catia V5, technical documentation.
Appraisal : Put DRIM in contact with the main suppliers (Bours, Harmonic Drive).
Roll head drawings sent to technical services for manufacturing.
- July 2004
August 2004 **Internship: Airplane maintenance mechanic**
Mission : Large-capacity jet major overhaul department.
Maintenance on a B747-400 - Engine, wings, cabin fitting-out, etc.
- June 2004
July 2004 **Internship: Fuselage Fitting Unit**
Mission : Reorganisation of the measuring instruments calibration procedure.
Mirage 2000-5 repairing process following a conflagration.
- July 2003
August 2003 **CDD: Operation Chief Deputy**
Mission : Operations chief deputy - Test flights department.
Flights and crew management & coordination.

Diplomas and education

- September 2006
August 2007 **Kingston University**
MSc in Aerospace Engineering with commendations.
CFD, CAD/CAM, industrial project management, financial ressources management, information systems, e-engineering, legal obligations, etc.
Area of specialisation : MSc Aerospace Engineering.
- September 2001
September 2006 **Institut Polytechnique des Sciences Avancées (IPSA)**
Expert in Aeronautics and Space Systems Engineering - First class honours.
Aeronautics & Space Engineering School (5-year programme).
Area of specialisation : Space Systems Design.

Computing skills

Software

CFD: Fluent/Gambit, CFX, CPS, Simail.
CAD/CAM: Catia V5, SolidWorks, I-DEAS.
Others: Nastran/Patran, Matlab, STK Astrogator, Ms Project, PerthMaster.

Languages

Visual Basic, Pascal (Delphi), C/C++, Fortran, SQL.

Additional information

Databases : File Maker Pro, Oracle.
OS : Windows, Mac OS, Linux (Mandrake).

Language skills

French

Speaking competence : Native speaker
Written competence : Native speaker

English

Speaking competence : Fluent
Written competence : Fluent

Spanish

Speaking competence : School level
Written competence : School level

Russian

Speaking competence : Poor
Written competence : Poor

Dutch

Speaking competence : Poor
Written competence : Poor

Various

CNES - Planète Sciences

2007: Flight Monitoring/Ground Recovery Coordinator during the 2007 launch campaign.
2007-2008: President of the Commission for Adult Scientific Activities integration (CNES - Planète Sciences).

Association AéroIPSA

Since 2002: Cofounder & president of AéroIPSA (Atmospheric powder propelled rockets conception)
Cooperation with the French Space Agency (CNES).
July 2006: Successful launch of an Experimental Rocket: Air Flow Optimisation Device study.

Mountaineering - Climbing

Alps, Scotland & indoor.
2006-2007: Member of the Kingston University Mountaineering Club.

Rugby

2001-2006: CERSTI Rugby Club. Hooker and Wing.
University Championship.

First Aid Certificate

Sea rescuer (National Sea Rescue Society).