

LOUIS BRADIER

Passionate and committed design engineer experienced to lead deliveries of composite material products. Currently designing composite material subsystems and their manufacturing processes for wind turbine blade tooling at Vestas. Educated in mechanical design and materials, I develop products both for the private individual and the industry. Understanding and accommodating, I enjoy putting forward individual's capabilities and sharing point of views to take the right decisions; this in order to achieve the right level of quality.

PERSONAL INFORMATION

- Nationality: French
- Date of birth: 29 September 1986
- Place of birth : Calais
- Marital status : Single

PROFESSIONAL EXPERIENCE

- Nov 2010 – Currently** **Vestas Wind System A/S** **Lem St, Denmark**
Composite Design Engineer
Design and modification of various tools (up to +80m) for wind turbine blade manufacture. Responsible for deliveries of composite material subsystems of tools for manufacturing thermoset components. Knowledge of various processing methods (wet lay-up, infusion, prepreg...), their design advantages, constrains and interactions.
This role covers among others the following competences:
- Lead technical engineer
 - Project/resource planning
 - Budget definition/supplier selection
 - Requirement definition
 - Lead engineering team
 - Design generation/review/validation (concept, CAD, calcs, lab test...)
 - Supplier management
 - Prototyping
 - Industrialisation
 - Delivery verification
 - Composite layup design (structural, thermal, cost effective...)
 - DFM
 - DFSS
 - TRIZ
 - Technology transfer to production
 - Production support/problem solving
 - Handling of multiple projects simultaneously
- Feb 2010 – Aug 2010** **Talon Technology Pty Ltd** **Brookvale, NSW,Australia**
Design engineer (Graduating Internship)
- Full cycle product design for the private individual and industry
 - Integration of measurement solutions (strain and accelerometers) with acquisitions on paddle.
 - Design of thermoplastic and thermoset composite paddles.
- Sept 2008 – Feb 2009** **Premix** **North Kingsville, OH, USA**
Assistant engineer (Internship)
- Design of composite parts and testing.
 - Documentation update.
 - Quotations.
- April – June 2006** **Institut ENSAM de Chambéry** **Le Bourget du Lac, France**
Materials technician
- Development work on characterisation and valorisation of a new recycled PVC "PEVECHOU". It won the gold medal at "le Concours Lepine" which is the biggest French invention contest.
 - Looking for new applications and choosing tests in accordance with the procedures of different European companies.
 - Creation of the sales file for future client.

June – August 2005 – 08 Hopital de Chambéry

Chambéry, France

- Kitchen assistant
- Stretcher
- Pharmacy storekeeper
- Logistics department

TECHNICAL SKILLS

- CAD – Catia, Solidworks, AutoCAD, Pro/E
- MathCAD, LAP(Laminate Analysis Program)
- Knowledge of Visual Basic, Fortran, HTML
- Microsoft – Windows & Office Suite
- Mac OSX
- Adobe – Photoshop, Premiere, After Effects

EDUCATION

Sept 2007 – Aug 2010 University of Technology of Belfort-Monbéliard Belfort, France
Master degree in Mechanical Engineering and Conceptual Design. I have specialized in the field of **Product Design and Development.** This course covers areas such as design, materials and project management. I am currently working on several projects at the same time covering areas such as mechanical design, project management, value analysis, industrial design, FAST, TRIZ...

Sept 2006 – June 2007 Napier University Edinburgh, Scotland
Bachelor of Engineering with honours in Polymer engineering. During this course, my “individual” project for my degree was the design and manufacture of a downhill skateboard wheel which was successful (Press release in Bayer Crosstalk UK & Ireland winter 2007). I got the University medal (top student of the year) for my work in the project.

IUT de Chambéry Le Bourget du Lac, France
International Technical Diploma with honours. This diploma was obtained after a successful year of studies abroad (exchange program).

Sept 2004 – June 2006 IUT de Chambéry Le Bourget du Lac, France
Two year university diploma in **material science and engineering.** This course gave me all the foundations for engineering with materials, particularly concerning my project which was the design and manufacture of a human powered boat. I was team leader in this project.

Sept 2001 – June 2004 Lycée Monge Chambéry, France
Scientific Baccalaureate option engineering sciences, with emphasis in physic/chemistry (equivalent to A level). At the same time I was involved in a rugby sport section.

OTHER QUALIFICATIONS

Languages

- Fluent in : English, French
- Communicate in: Danish, Spanish

General

- French driving licence

INTERESTS AND ACTIVITIES

I constantly express my creativity through engineering projects combining different passion such as sport or industrial design.

I designed and manufactured a carbon fiber longboard which was featured on several industrial design websites such as Yanko Design and Core77.

I was team manager and in charge of the design and manufacture of composite and polymer parts of a prototype car for the Shell Eco-Marathon Europe. The Eco-Marathon is an annual competition sponsored by Shell, in which participants build special vehicles to achieve the highest possible fuel efficiency. We were 27th out of 172 teams at the Shell Eco-marathon Europe 09 with 1082km per litre of gas and we beat the university record for the second year in a row.

I practice other sports such as rugby, snowboard or surf.

To know more about my different activities or projects, see my website www.louisbradier.com