

# ROBIN LE BARBIER

## Mechanical Engineer

graduated from the Karlsruhe Institute of Technology

## Certified Project Management Professional

By the Project Management Institute



## INTRODUCTION

---

After nearly 10 years working as mechanical engineer at ITER Organization, I created my own company: RLB Engineering. Since October 2018 I have been providing expertise on mechanical engineering for nuclear applications. My customers have been the ITER vacuum vessel group, the ITER Divertor group and Fircroft Ltd for the ITER Diagnostics.

## PROFESSIONAL HISTORY

---

- Since 2018     **RLB Engineering** – Self employed
- 2009 to 2018   **ITER Organization** – Manufacturing design engineer in the Vacuum Vessel project team.  
⇒ Responsible officer of the vacuum vessel instrumentation  
⇒ Designing and supporting the fabrication of complex nuclear systems  
⇒ In charge of integration, definition and follow-up tolerance and interface management
- 2008 to 2009   **Assystem France** - Mechanical engineer in external support to ITER Organization  
In charge of the designs of the vacuum vessel and thermal shield instrumentations
- 2007 to 2008   **Forschungszentrum Karlsruhe (KIT)**  
Master Thesis at the Institut für Reaktorsicherheit: *Design, fabrication and assembly of a test bench for the cooling of the high flux test specimens of IFMIF*

## RELEVANT SKILLS

---

- ⇒ 12 years' experience nuclear fusion technologies
- ⇒ 11 years' experience nuclear facility instrumentation
- ⇒ Daily application of RCC-MR rules for design and manufacturing
- ⇒ *Project Management Professional* certified by PMI in September 2014
- ⇒ Excellent interpersonal skills in multi-cultural and multidisciplinary environment
- ⇒ Regular use of ANSYS Workbench, for thermal and structural analysis
- ⇒ Excellent reporting skills
- ⇒ Trained and familiar with design on CATIA V5 and tolerance studies
- ⇒ Practical experience of managing design tasks

## CERTIFIED TRAININGS

---

- ⇒ Nuclear Safety Control Systems standard IEC 61513
- ⇒ Project Management Professional
- ⇒ INB, *décret du 7 février 2012*
- ⇒ French Nuclear Regulation
- ⇒ RCC-MR design code
- ⇒ Dimensional measurements
- ⇒ Non Destructive Testing and metallurgy of welds
- ⇒ Optical strain sensors
- ⇒ Summer School on Fusion Technologies at Forschungszentrum Karlsruhe
- ⇒ Intellectual Property and export control
- ⇒ ANSYS Workbench version 14
- ⇒ CATIA v5 3D live
- ⇒ Writing with impact

## EDUCATION

---

- 2007      **Diplom Ingenieur des Allgemeinen Maschinenbau**, Universität Karlsruhe TH (Germany)  
MSc. Mechanical Engineering  
Main field of studies: thermal and turbo - machinery  
Master thesis in the field of fusion technologies at FZK Karlsruhe
- 2005      **BSc. Mechanical Engineering**, International Dpt. Of the University of Karlsruhe (Germany)  
Main field of studies: Integrated product development  
Bachelor Thesis in Instituts für Technische Mechanik: Mechanical joints of humanoid robots  
Internship at Dassault Aviation, FEA group: Preparation and estimate of the load cell of the Falcon 7X aircraft
- 2002      **Licence de Mécanique**, BSc. Mathematics applied to mechanics - Université Rennes 1
- 2001      **D.E.U.G. Sciences de la matière**, General physics degree - Université Rennes 1
- 1999      CPGE, Post-graduate preparatory class in mathematics for engineering schools – Lorient
- 1998      **Baccalauréat Scientifique**, Saint Malo

## FOREIGN LANGUAGES

---

French – mother tongue  
English – Proficient  
German – fluent  
Spanish – high school level

## CONTACT

---

TEL : +33 6 87 74 43 65  
Robin.lebarbier@rlb-engineering.eu

RLB Engineering  
SIRET 842 853 152 00010  
42 Avenue La Perrière  
56100 LORIENT (France)