ROMAIN PINQUIÉ
Date of Birth: 31 January 1988
Nationality: French

LSIS UMR CNRS 7296, Arts & Métiers ParisTech
19, rue Lacépède, 13100 Aix-en-Provence, France
T: +33 (0) 658 336 305   E: r.pinquie@gmail.com   W: rpinquie.github.io

Dr.-Ing. in Product Design
Systems Engineering, PLM & Data Science

WORK EXPERIENCE

10/2013–10/2016   **Ph.D Candidate in Product Design**
Arts & Métiers ParisTech - Institut Carnot ARTS
Information Science and Systems Laboratory - LSIS UMR CNRS 7296
Industrial partner: Keonys

Proposition: *A collaborative requirement mining framework to enable subcontractors to gain insight and discover opportunities in a massive set of text-based requirements so as to make informed strategic decisions early on.*

Concurrent activities:

- Research on the implementation of the PMM MBSE method with Modelica.

- Active member of the INCOSE's French chapter AFIS and PLM Lab association.

- Teaching Computer Aided Design (35H) using ENOVIA/CATIA V6 to the first-year engineering postgraduate students at Arts & Métiers ParisTech.

- Teaching Systems Modelling & Simulation (16H) with Dymola to the final-year engineering postgraduate students at École Polytechnique Féminine.

- Training courses:

    - Big data (Hadoop) & Semantic web (OWL) - UDOS (15H)
    - 3DS Exalead Cloudview V6 - Dassault Systèmes (28H)
    - Processing of massive scientific datasets - LAAS-CNRS (20H)
    - Information visualisation -LAAS-CNRS (20H)
    - Collaborative engineering & geometric modelling - LSIS UMR CNRS (28H)
    - Cost and financing of research activities - Mines ParisTech (35H)
    - Patents and intellectual property - URFIST Paris (7H)
    - Key principles of management - Mines ParisTech (14H)

02/2013–10/2013   **R&D Engineer in Systems Engineering**
Institut Supérieur de Mécanique de Paris, Paris, France
Laboratoire d'Ingénierie des Systèmes Mécaniques et des MAtériaux - LISMMA

Mission: *Focused on the use of ENOVIA-CATIA V6 and Dymola for the modelling and simulation of systems.*

04/2012–11/2012   **Trainee as Prognostics and Health Management Engineer**
PHM Technology Pty Ltd, Melbourne, Australia

05/2011–09/2011   **Trainee as Mechanical Design and Test Engineer**
Hamilton Sundstrand's Ratier-Figeac unit, Figeac, France

02/2010–04/2010   **Trainee as Stress Engineer**
Études et Coordination Technique d'Acquitaine, Pau, France

04/2008–06/2008   **Trainee as Mechanical Designer**
ISP System, Tarbes, France

EDUCATION

2013–2016 **Arts et Métiers ParisTech.** *Aix-en-Provence, France*
Ph.D in Product Design with an emphasis on Systems Engineering, PLM, and Data Science

2011–2012 **Cranfield University, Applied Mathematics and Computing Group.** *Cranfield, England*
MSc in Computational & Software Techniques in Engineering, option Computer Aided Engineering

2009–2012 **ESTIA Institute of Technology.** *Biarritz, France*
Master's Degree in Computer Aided Engineering (French *Diplôme d'Ingénieur Grandes Écoles*)

2008–2009 **Louis Rascol College.** *Albi, France*
Preparatory classes for the nationwide competitive entrance exam to French Engineering Schools

2006–2008 **Paul Sabatier University.** *Toulouse, France*
Bachelor's Degree in Mechanical Engineering specialised in Aerospace Sciences

PUBLICATIONS

Requirement Mining for Model-Based Product Design
International Journal of Product Lifecycle Management, in press

Property model methodology: a case study with Modelica
11th Int. Conf. on Tools and Methods of Competitive Engineering, Aix-en-Provence, France, 9–13 May 2016

Natural language processing of requirements for model-based product design with Enovia-Catia V6
12th IFIP Int. Conf. on Product Lifecycle Management, Doha, Qatar, 19–21 October 2015

A collaborative requirement mining framework to support OEMs
12th Int. Conf. on Cooperative Design, Visualisation and Egineering, Mallorca, Spain, 20–23 September 2015

A illustrated glossary of ambiguous PLM terms used in discrete manufacturing
International Journal of Product Lifecycle Management, 8(2), 2015

LANGUAGES

English: Professional working proficiency *(ILR Level 3)*   **Spanish:** Limited working proficiency *(ILR Level 2)*

SKILLS

Systems Engineering: Catia V6 RFLP, Modelica (SystemModeler, Dymola, Catia V6 DBM, OpenModelica), Simulink, Axiomatic design, PMM, SysML, APTE, FAST, SADT, FFBD.

Data Science: Weka, R (tm, TextTools, ggplot2), Python (numpy, matplotlib, scikit-learn), Stanford CoreNLP, Apache Tika, Neo4J, D3.js, WordNet, ConceptNet 5.

CAX & PLM: ENOVIA-CATIA V6 & V5, ABAQUS CAE.

RAMS: MADe, FMECA, FTA, RBD.

Progamming: Java, JSF, Eclipse, Maven, JavaScript, CSS, HTML, Bootstrap, PrimeFaces, BootFaces, Jsoup, Jdom.

REFEREES

Pr. Philippe Véron
Full professor
Arts & Métiers ParisTech
LSIS UMR CNRS 7296
philippe.veron@ensam.eu

Dr Carol A Armitage
Lecturer and Research Fellow
Cranfield University
Applied Mathematics and Computing
c.a.armitage@cranfield.ac.uk

Dr Jacek Stecki/Chris Stecki
Principal Engineer/CEO
PHM Technology Pty Ltd
jstecki@phmtechnology.com
cstecki@phmtechnology.com