

proposition sujet de mémoire **2014 - 2015**
MASTER Recherche 2^{ème} année
Management, Innovation, Technologie
spécialité « **Génie industriel** »

Titre
**Analysis of SYSML as a tool to support the design
process of products**

Contenu du sujet proposé :

The design process is supported by a wide range of models and representations that serve multiple purposes. These models are produced by several different expertises, with the objective of characterizing the solution (often) and the problem (less often). They are generally poorly interoperable and covered a narrow range of the knowledge required or produced by the designers. Attempts have been made in the last decades to borrow tools from engineering software and apply them to systems engineering. These experience led to the development of SysML [1], a modeling language dedicated to complex System Engineering [2]. The use of this language is growing everyday and even invest the french collège and lycée curriculum.

The goal of this master thesis project is to perform an assesment of SysML in the context of product design. SysML is commonly use for modeling complex systems but there are no guarantee that such modeling language suits the need of product design. Attention will be paid to the added value SysML can provide in the collaborative dimension of the product design activities. A review of the litterature, as well as a survey of tools and case studies will be held.

[1] Roques, P. (2013). *Modélisation de systèmes complexes avec SysML*. Eyrolles.

[2] www.incose.org

- Quel parcours conseillez-vous : ~~Supply Chain~~ ou Product Development ?
liste des cours sur le site web du master
- Pour mener à bien le stage, il est souhaitable de suivre en cours optionnels le (s) enseignement(s) suivant(s) :

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Merci de bien préciser l'état des contacts avec les entreprises