Master Thesis: Moving ModelicaML to a Professional Open-Source Project Level

ModelicaML plug-ins and the example can be downloaded from: http://openmodelica.org/index.php/developer/tools/134.
Please follow the installation instructions described in the “ModelicaML: Getting Started” document that is also available form: http://openmodelica.org/index.php/developer/tools/134.

What?

The ModelicaML prototype, which has been developed for the last 4 years, was primarily used as a platform for prototyping new ideas. Today ModelicaML implementation has reached a good level of maturity. The main objective of this project is to move the ModelicaML implementation to a professional open-source project level. The tasks are summarized as follows:

- Analyze the state-of-the-art and best practice in software engineering for larger open-source projects
- Set-up a new or adopt the existing SVN repository structure if necessary
- Implement the ModelicaML perspective in Eclipse
- Implement an Eclipse product for ModelicaML, including corporate identity (logo and icons will be provided), update sites, etc.
- Set-up the environment for testing of new ModelicaML releases
- Set-up the build system for multi-platform builds (both: for releases and nightly development builds)
- Adopt the ModelicaML webpage on the OpenModelica website if needed
- Elaborate and document guidelines for writing the ModelicaML Eclipse help documentation
- Elaborate and document process and guidelines for contributing new functionality to ModelicaML in order to ensure that it is prepared for future contributions
- Ensure the correct usage of third-party components according to their license terms
- Prepare the ModelicaML Eclipse product to be shipped with the OpenModelica tools
The target Eclipse version is “Kepler” (will be released in June 2013).

**How?**

The Master thesis is done at Linköping University, Dept. for Computer Science and Information Science, in cooperation with EADS Innovation Works in Hamburg (Germany).

Location: Linköping

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The Master thesis work is for **one or two** students.