

# AutoOMA on wind turbine Hub

## Master project, Anders Olsen, Spring 2017

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### **Project Plan**

The Project will consist of weekly meetings where progress is discussed and future work is planned.

#### **0.1 Detailed plan**

(This section is subject to change.)

The project will start by reviewing and extending OMA techniques from the Modal testing course. After the initial phase we will start implementing effective techniques for exciting a model in the lab and building effective AutoOMA around this model. Focus will be on exciting techniques that can be used on very heavy structures. A small Finite Element (FE) model will be updated in this process, using basic updating techniques. When the model is a reliable representation of the measured responses, an Auto Updating technique is employed to finish the updating of the model.

If time permits the AutoOMA and Auto updating techniques implemented in the lab will be implemented on the Hub used in the INNOMILL project. As this relies on coordination with external parties this part of the project may change.