

Mechanical Engineering Department



Vertical Axis wind Turbine

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Project Description

Involving vertical axis wind turbines. The objective of this project is to design and build a self-starting vertical axis wind turbine that is capable of producing power in real world situations.

The design of the turbine will include exploration of various self-starting options, as well as construction of both model and full-scale turbines.

The full-scale turbine will be designed such that it can be connected to a generator and a torque transducer to measure the output power, torque and rotational speed of the turbine.

The design will also allow for data collection regarding the effects of blade pitch angles.

With these applications, it is hoped that Alexandria University's Department of Mechanical Engineering will conduct future research Axis Wind Turbines involving vertical axis wind turbines.



