

**DEVELOPMENT AND ANALYSIS OF DARRIEUS TYPE
WIND TURBINES FOR LOW SPEED WIND**

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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This paper is explaining about a development for vertical axis wind Darrieus type turbines for low wind speed and wind speed monitoring in Swiss German University as additional data. Development of wind turbines is performed using OpenFOAM for simulation and Paraview for performing post processing. An implementation on internet of things on monitoring system using Thingspeak™ as host server and data analysis on monitored data.

Keywords: VAWT, Turbines, Internet of Things, ESP8266, Darrieus, Vertical Axis Wind Turbines



DEDICATION

This paper is dedicated for renewable and clean energy to keep our planet green and stop the global warming and other people out there who wants to make this planet a better place at the future. Also I dedicated this project for my family and friends.



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