Registration Form

TEAM INFORMATION

Team Name/Project Title: VAWT

Department: Mechanical Engineering

Faculty Advisor(s): Peter Jenkins

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Team Members (full name, e-mail): (Alexis Sandoval, alexis.sandoval@ucdenver.edu)

(Matthew Snell, matthew.snell@ucdenver.edu)

PROJECT INFORMATION

Description:

The goal of our project is to design and build a small vertical axis wind turbine that efficiently generates energy.

Abstract:

We are designing and building a cheap, small, and efficient vertical axis wind turbine that is intended to be used on rooftops of houses or commercial building to passively create energy. Our design will be a traditional three blade design utilizing the DU 06-W-200 VAWT airfoil for the blades. Unlike traditional turbines our model does not have the main shaft directly hooked to the generator. Instead, our design will have the shaft hooked to the generator through gearing. This allows the design to be applicable in a wider variety of areas as well as minimizing the vibration and wear on the motor.