BHAVANA KASHIBHATLA

Adjunct Faculty – Engineering Technology College of science and engineering technology Department of Engineering Technology Sam Houston State University Box: 2088 Huntsville, TX 77341

Work History

Graduate Research Assistant

Texas A&M University-Kingsville – Kingsville, TX

Study on wind augmentation shrouds for optimal design to improve the power efficiency of the wind turbine

Worked on Creo Parametric 3.0 and 3D printing for design and manufacturing the wind augmentation shrouds.

Planned and conducted experiments, evaluated results in IBM SPSS Statistics of analysis. Conducted workshop for students from high school in learning Creo Parametric 3.0 and 3-D printing.

Collaborated with a team of faculty to develop after-school tutorial program for students in need of extra help.

Education

M.S. Industrial Technology and Management (2017) Texas A&M University- Kingsville

B.S. Civil Engineering (2015)

Vignan's Institute of Tech and Aeronautical Engineering - India

MASTER THESIS

Title- Analysis and comparison of a custom constructed small-scale wind augmentation device with a wind-guide attachment to improve wind power generation

Supervisors- Dr. Ulan Dakeev and Dr. Bruce Marsh

Description- Wind is a renewable and reliable source of energy. But, it is still a major question if one can use wind turbine as a prime source of energy. The present work investigates the power generation of a wind turbine using different shroud designs. Power generated using different shroud designs has been measured using experimental set-up. Analyzed and verified all energy savings calculations to promote environmental sustainability and energy conservation. Developed cost estimates, procured equipment and tracked construction progress to efficiently complete large scale projects. Some cost effective designs of shrouds for cheap power have been proposed.

Publications

- Kashibhatla,B.,Ulan.D., Yildiz.F., "Analysis of a Custom Constructed Wind Augmentation Device with 30 Degree Inlet Section to Improve Wind Power Generation" (IAJC), 2016, Orlando, Florida.
- Kashibhatla,B., Yanamala.S., "*Plastic bottle as a sustainable material in construction structure*", (IIT Bombay University Journal), March 2014, Bombay, India.