

# MADANAMBETHI DWARAKANATH

Quick Learner, Self-motivated.

+91 8074824861  
dwarakanathmodaliar@gmail.com



## EDUCATION

Course	Institution	CGPA
B.Tech (Aeronautical Engineering) (2019-2023)	Bharath Institute of Higher Education and Research Chennai, Tamil Nadu	8.5
Intermediate (MPC) (2017-2019)	Sri Chaitanya Junior College Tirupati, Andhra Pradesh	9.19
SSC (2017)	C.S Teja High School Tirupati, Andhra Pradesh	9.2

## PROJECTS

### MAJOR PROJECTS

#### NUMERICAL AND EXPERIMENTAL INVESTIGATION OF THE EFFECT OF PITCH ANGLE AND AIRFOIL SHAPE ON THE PERFORMANCE OF A VERTICAL AXIS WIND TURBINE

The main aim of this work is to obtain maximum power for an optimized pitch angle for different symmetric and asymmetric airfoils. A new concept of main blade and auxiliary blade is obtained.

- The coefficient of power of the turbine was increased by 10%
- The power output was increased by 3%

#### AIRCRAFT DESIGN PROJECT - DESIGN OF 130 TONNES CARGO PLANE

An 130 tonne cargo aircraft was designed in two phases (Aerodynamic design and Structural design). The 3-view design of the plane was designed.

## SKILLS

AUTOCAD	★★★★☆☆
ANSYS	★★☆☆☆☆
PYTHON	★★★★☆☆
HTML	★★★★☆☆
CSS	★★★★☆☆
JAVASCRIPT	★★☆☆☆☆

## OTHER SKILLS

Communication skills  
Leadership skills

## CERTIFICATIONS/PARTICIPATION

Paper presentation -  
Research paper of our major project is presented in the National Conference - NCRTAT 2023

Participated in National Seminar on Wind Engineering and its applications

Certificate - Basics of AutoCad from Sai Cad Centre

## LANGUAGES

English, Telugu and Hindi