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CURRICULAM VIATE



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OBJECTIVE

To become a successful professional in the field of Mechanical Engineering by working in a leading organization, which could provide me with a stimulating work environment and opportunities to continuously develop and learn perspectives so as to enable me to utilize and hone my conceptual, analytical and organizing skills.

ACADEMIC QUALIFICATION

- 2008* Indian Institute of Technology, Guwahati, **M.Tech** Mechanical Engineering in specialization in **Machine Design**, **CPI- 7.58**.
- 2007 Jawaharlal Nehru Technological University, Hyderabad, **B.Tech** Mechanical Engineering, **62.62%**.
- 2003 **XIth** (B.I.E Hyderabad) Sri Chaitanaya Junior College, Tirupati, Maths, Physics, Chemistry **78.8%**.
- 2001 **Xth** (CBSE) Pusphagiri Residential Public school, Kadapa With **57.8%**.

RELEVANT COURSES TAKEN

- Mechanical Vibrations, Advance Mechanics of Solids, Fracture and Fatigue, Introduction to Composite Materials, Engineering Design Methodology, Computer Integrated Manufacturing (CIM), Computer Aided Engineering and Design.

AREA OF INTREST

- Strength of Materials
- Manufacturing Technology
- Material Science and Powder metallurgy

M.Tech: Design, Development and Performance Evaluation of Self lubricating cutting tool for High Speed Machining (Sponsored by ARDB, Govt of India).

Keywords: Dry machining, Self-lubricating material.

In this project we have attempted to develop the Self-lubricating material for high speed machining using Powder metallurgy technique, with Tungsten carbide (WC) as base material, Cobalt (Co) as binder and Molybdenum disulphide (MoS₂) as solid lubricant. And studied the milling, compaction and sintering characteristics and mechanical behaviour of the proposed material on addition of solid lubricant.

Guide: Dr. S.Senthilvelan, Department of Mechanical Engineering, IIT Guwahti.

B.Tech: Study of Automatic Solar Tracking System Using Microcontroller.

Keywords: Renewable energy, Solar tracking system, Photovoltaic cells.

In this project we have studied performance characteristics of Photovoltaic modules by positioning in different configuration. And studied the effect of Latitude location on the efficiency of the photovoltaic modules by positioning in 3 different configuration namely (1) Panel in fixed horizontal position. (2) Panel inclined at 16° to horizontal. (3) North-South horizontal, East-West tracking with panel inclined at 16° to horizontal. The maximum power efficiency was obtained from third configuration and least from the first configuration.

Guide: Assistant Prof. B.Sidda Reddy Dept of Mechanical Engineering, RGIT Nandyal.

PUBLICATION AND CONFERENCE

- N.Vikram Manoj Kumar, S.Senthilvelan, P.S.Robi "Characterization of self lubricating tool material for automotive application", 7th TRIBO INDIA conference, New Delhi, Dec'09.
- Presented the paper " Characterization of Self Lubricating Tool material for automotive application" in 7th TRIBO INDIA conference ,New Delhi,Dec'09.