

M.Tech (Mech.) with 5 years' Exp.

CURRICULUM VITAE

VEMULA VIJAYA VANI
W/o-ANDRIYA NARASIMHULU
Sex- Female
DOB- 05/01/1986

Flat No.:16, Type-IV
NSIT Campus,
NSIT, Dwarka
New Delhi-110078



Marital Status- Married
Languages known-Telugu, English, Hindi

Mobile: +91-9582172845/9899518264
Email: vemulavijayavani@gmail.com

Presently working as Teaching cum Research Fellow in Netaji Subhas Institute of Technology, New Delhi

ACADAMICDETAILS PRIOR To M.Tech

Year	Degree/Exam	Institute/university	Marks (%)
2015	Registered PhD	NSIT, Delhi University	Persuing
2012	M.Tech	MD University, Rohtak	75.4% (Dist.)
2007	B.TechInd.&Prodn.	S.K.University, AP	80.04% (DISTINCTION)
2003	Intermediate State Board	ManikJr.College, KNL, AP	90.02% (DISTINCTION)
2001	(SSC) State Board	St.Joseph School, KNL, AP	88% (DISTINCTION)

Courses Done

Casting, Metal Forming Analysis, Welding Technology, Mechatronics, Design of Production Control of Production systems, Automation in Manufacturing, Metal Cutting, Quality control, CAD/CAM, Principles of Management

M.Tech THESIS WORK

Title - Study on Grindability of Ti-6Al-4V using Solid Lubricants

Supervisors - Dr. Tasmeem Ahmed Khan

Description -

Titanium is Hard-to-machine materials as Ti-alloy (Ti-6Al-4V) has low thermal conductivity, high chemical reactivity at elevated temperature and low modulus of elasticity. After alloying its machinability decreases. But due to Ti-alloy's low thermal conductivity heat accumulation occurs on the surface which may lead to residual tensile stress, surface cracks and re-deposition on the ground surface as a result the fatigue life of the product decreases. Grinding is a high specific energy consuming process. At the time of grinding there are three types of actions taking place in between the grinding wheel and the surface to be ground. These are shearing, ploughing, and rubbing for different conditions of grit shape. Shearing is the process of metal removal, and the other two actions are unwanted during the process and results frictional loss. Hence to decrease the specific energy of grinding solid lubricants can be used which will reduce the frictional losses (rubbing component) and thereby decrease the grinding forces.

B.Tech THESIS WORK

Title - Study of Heuristic Approach for Job Shop Scheduling Problem

Supervisors - Dr. K.Meenakshi Reddy

Description -

Heuristic approach for condition based job shop schedulingproblem is to be done and have considered two scheduling problems and we select which one is the best method based on idle time and total elapsed time.

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PUBLICATIONS

1. Vijaya Vani Vemula, Tasmeeem (2012), '*Study on Grindability of Ti-6Al-4V using solid lubricants*' International Journal of Engineering Science and Technology, Vol X(XX) pp.1-9

PRESENTATIONS

Presented a technical paper on '**Ant Colony System: A coordinative Learning Approach to the Travelling Salesman Problem**' in a "**National Level Students Technical Symposium**" held at CBIT, HYD.

WORK EXPERIENCE

- Worked as a Assistant Professor in Lingayas University, Faridabad, from August 2012 to January 2013
- Worked as Lecturer in Echelon Institute of Technology, Faridabad from July 2011 to Aug 2012
- *Worked as a guest faculty in GB Pant Engineering College, Okhla from January 2011 to May 2011*
- Worked as a Assistant professor in MLR Institute of Technology, Dundhigal, Hyderabad from 20th July 2007 to 10th June 2009
- **Subjects Handled:** Thermodynamics, Foundation of Solid Mechanics, Aircraft Production Technology, Engineering Drawing, Manufacturing Technology, and Strength of Materials.
- **Labs Handled:** Propulsion Lab, Mechanics of Solids, Production Technology, CAD Lab

TECHNICAL SKILLS

- **Operating Systems:** Windows XP and Windows Vista, Win7, Win 8
- **Programming-** C
- **Modelling-** PRO-E Part Modeling, PRO-E Manufacturing (NC code generation), AUTO CAD, CATIA, ANSYS

ACHIEVEMENTS

- Stood school first in SSC
- Class first in Inter
- Among top 10 in our B.Tech class of 67 students

OTHER INTERESTS

- Reading Bible and attending church
- Watching documentary videos in Discovery, National Geography channels
- Listening radio, Cooking and Travelling

DECLARATION

I hereby declare that all the information furnished above is true to the best of my knowledge.

Place: New Delhi

Yours Sincerely



Date: 23/10/2017

(VEMULA VIJAYA VANI)

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REFERENCES

Suresh Babu Muttana
Scientist C
Collaborative Automotive R&D (CAR)
Technology Information Forecasting & Assessment Council (TIFAC)
Vishwakarma Bhavan, Shaheed Jeet Singh Marg
New Delhi - 110 016
Contact : 011- 42525776, Fax : 011- 26591158
Mobile : + 91- 9971046796
E-mail ID: sureshbabumuttana@gmail.com

Shri. Prashant H Kumar
Deputy General Manager
Indian Telecom Services
Railway Electrification, BSNL
UD-12, P & T Colony
Devnagar
Kharolbagh
New Delhi- 110 005
Mobile : 09868136446
E- mail ID: repc_recp@yahoo.com

MRs P Esther Kamala
Assistant Director
IRP Division- Central Electricity Authority
II Floor, Sewa Bhavan
Sector 1, R K Puram
New Delhi-110066
Office Ph: 01126732264
Mobile No.: +91 9899029857
E-mail ID: prasanth_esther@yahoo.com