

BIO-DATA

1. **Name** : Dr. NAKKA V V SIVA SUDHEER

2. **Father's Name** : N . PATTIAIAH

3. **Date of Birth** : 15.07.1969

4. **Address for Communication** :

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5. **Educational Qualifications** :

| Degree/ examination | Year | College/University | Division | Subjects |
|---|------|--|------------------------------|---|
| B.Tech | 1992 | Bapatla Engineering College, Bapatla, Nagarjuna University, A.P | First class | Mechanical |
| Post graduate Diploma in Quality Management | 1997 | School Of Quality Management, Bharathi Dhasan University, Trichy, Tamil Nadu | First class | SQC, TQM, Quality systems, Materials Management, HRM, Design of experiments. |
| M.Tech | 2004 | J.N.T.U. College Of Engineering, Anapatpur, Jawaharlal Nehru Technological University, Hyderabad . | First class with Distinction | Heat Power Engineering (Refrigeration and Air conditioning) |
| Ph.D | 2013 | Osmania University, A.P | | Mechanical with thesis title of "Investigation on Influence of Compressed Refrigerated Air and High Heat Transfer Rate MQL in Turning of Aluminium Silicon Carbide Metal Matrix Composite". |

6. **Area of Interest** : Thermal systems applications in manufacturing, Heat Transfer and IC Engines.

7. Teaching Experience :

| S. No. | Name of the Organisation | Designation | Period |
|--------|--|--|--|
| 1. | Bapatla engineering college, Bapatla, Nagarjuna University, Andhra Pradesh. | Teaching Assistant in the Department of Mechanical Engineering. | 1995 - 96 |
| 2 | Bapatla engineering college, Bapatla, Nagarjuna University, Andhra Pradesh | Teaching Assistant in the Department of Mechanical Engineering. | 1997 - 98 |
| 3 | R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh. | Lecturer in the Department of Industrial and Production Engineering | 26 th June 1998 to June 2006 |
| 4 | R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh. | Senior Lecturer in the Department Of Industrial and Production Engineering | 1 st July 2006 to December 2008 |
| 5 | R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh. | Associate professor inthe Department of Mechanical Engineering | 1 st January 2009 To Till date |

Subjects Taught :

- Basic Thermodynamics.
- Applied Thermodynamics.
- Advanced Thermal engineering
- Thermal engineering- I
- I.C.Engines and Gas Turbines
- Heat Transfer
- Fluid mechanics.
- Refrigeration and Air conditioning
- Professional Ethics and Human values
- Operations research.
- Industrial management.
- Production and Operations management.
- Engineering Drawing.
- Engineering Mechanics.
- Machine Drawing.
- Energy Resources Utilization

Administrative activities :

- In-charge of Industrial Engineering Lab.
- Involved in the National Board of Accreditation activities.
- Handling Thermal engineering Labs.
- Member of Sports committee.
- Member of Time-Table Committee.
- Member of Training and placement.
- Member of Anti Ragging committee
- In- charge **Air conditioning** and **Refrigeration** systems

Other Information :

- Presently **eight Ph.D students are working under my guidance** in Nagarjuna University.
- Attended Number of short term courses on various topics at National level.
- Actively involved for securing highest grade of NBA for four times.
- Life member of Indian Society for Technical Education (ISTE)
- Member of International Association of Engineers (IAENG)
- Acted as Deputy Chief Superintendent for conducting AIEEE, EAMCET Exams.
- Acted as a Judge for Technical Paper presentations.
- Guided Number of B.Tech Student projects.
- **Faculty Advisor for SAE Collegiate Club.**

8. Projects handled for National level competitions :

- Acted as a Faculty Advisor and Supervisor for Design and Fabrication of All Terrain Vehicle (ATV) for Delta shootout-2014 competition conducted at NIT-Jamshedpur. In this competition our vehicle got second place in Acceleration Event, Third place in Maneuverability, Third place in Hill climbing and Fourth place in Endurance.
- Acted as a Faculty advisor and supervisor for Design and fabrication of All Terrain Vehicle (ATV) for BAJA Student India-2015 competition conducted at NIT-Jamshedpur. In this competition our vehicle got 7th rank in design, 14th rank in cost, 11th rank in sale, 18th rank in hill climb, 9th rank in maneuverability, 10th rank in endurance and overall rank of 25th in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle for eBAJA- 2015 competition organized by SAE India at Indore. In this competition, our vehicle secured first position in the Initiative category in all over India and it is appreciated by Dr, Abdul Kallam former president of India.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle for eBAJA- 2016 competition organized by SAE India at Indore. In this competition, our vehicle secured second position in the overall statics and cost in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication of Hybrid Vehicle for Hybrid vehicle challenge-2016 competition organized by Imperial Society of Innovative Engineer at Bhopal. In this competition our vehicle secured second position in the Skid padevent in all over India.

- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle for eBAJA- 2017 competition organized by SAE India at Indore. In this competition our vehicle secured cash prize of Rs. 1,50,000-00
- Acted as a Faculty advisor and supervisor for design and fabrication of Hybrid Vehicle for Hybrid vehicle challenge-2017 competition organized by Imperial Society of Innovative Engineer at Noida, New Delhi. In this competition our vehicle secured Third position in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication of GO Kart vehicle and participated in the event Student kart design challenge organized by Society of Automotive and Mechanical Engineers (SAME) on 6th to 8th January 2018 in Hyderabad. They secured first place in the final racing and stood third place in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication Hybrid vehicle and participated in the event Hybrid Vehicle challenge organized by ISIE on 17th to 21st January 2018 at Noida, New Delhi. The team stood in third place in overall championship.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle and participated in the EBAJA event organized by Society of Automotive Engineers at Pithampur, Indore, Madya Pradesh. Team secured third place in the event.

In this event three students of the team selected in reputed organizations like M/s General Motors, ARAI and Varag with very good pay, the maximum pay is Rs. 13.8 Lakhs.

- Acted as a Faculty advisor and supervisor for design and fabrication of GO Kart vehicle and participated in the event Go-kart design challenge organized by ISNEE on 12th to 16th February 2018, at Coimbatore. Team stood in third place.

9. Industrial experience :

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|---------------------------|--|
| 1992 – 95 | Worked in M/s .Pantech Machine tools, Hyderabad as a Production and Quality control engineer |
| Job description | I had handled the production of Rotor shafts for Ceiling fans being supplied to M/s.USHA, CROMPTON GREAVES, BAJAJ etc. |
| Major achievements | Sincere implementation of SQC tools during Quality control checks.This reduced the rejection from 10% to 2%.Developed Jigs that reduced the time taken for completing operations on the shaft. In addition to it reduced the risk to the operator and increased production by approximately 10%. |

Other Experience in Industry :

| | |
|--------------------------------|---|
| Teaching & Training | Trained staff members in M/s. Pantech Machine tools, Hyderabad on proper use of measuring Instruments. Impressed upon staff members of M/s. Pantech Machine tools, Hyderabad on issues pertaining to Quality and safety in all of their activities. |
| Administration | Supervised 10 staff and 40 workers of M/s. Pantech Machine tools, Hyderabad who involved in different functions and maintained measuring instruments and machinery |

10. Papers Published :

JOURNALS:

1. N V V S Sudheer, K. Karteeka Pavan, "Effect of High Heat Transfer Rate Minimum Quantity Lubricant in Turning of Aluminum Metal Matrix Composite and Differential Evolution Optimization of Process Parameters" Published in International Review of Applied Engineering Research. ISSN 2248-9967 Volume 3, Number 3 (2013), pp. 189-199.
2. N V V S Sudheer, KVJ Rao and B.Srinivasa Rao, "Investigation on Influence of Refrigerated Air in Turning of Aluminium Metal Matrix Composite", Published in International journal of Applied Research, ISSN 0973-4562 Volume 6, Number 5 (2011) pp. 931-938.
3. N V V S Sudheer, KVJ Rao and G.Srinivasa Rao "Study on Influence of Process Parameters in Turning of Aluminium Metal Matrix Composite", Published in the ANU Journal of Engineering and Technology, ISSN 0976 – 3414, Volume 2, Number 2, pp. 5-7, December 2010.
4. N.V.V.S.Sudheer, and, K.Katheeka Pavan "Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning of Aluminium Metal Matrix Composite and Differential Evolution Optimization of Process Parameters" Journal of, Procedia Materials Science, Elsevier, Volume 6, 2014, Pages 840-850.
5. N.V.V.S.Sudheer, K.V.J.Rao and N.Rajesh "Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning Of Aluminium Metal Matrix Composite", published in the Journal of Association of Engineers, India, vol 83, no.3&4, pp-45-55, 2013.
6. Santhisree Nerella, Dr.N.V.V.S.Sudheer and Dr.P.Bhramara " Enhancement of Heat Transfer by Nanofluids in Solar Collectors", Published in International Journal of Innovations in Engineering and Technology, Volume 3, Issue 4, PP.115-120, 2014.
7. R.Madhu Kumar and N.V.V.S.Sudheer "Performance Improvement of Ranque-Hilsch Vortex Tube by Varying inside Surface Roughness of Hot Tube", Published in International journal of Innovative Science, Engineering and Technology, Volume I, issue 4, June 2014, pp- 297-302.
8. N.V.V.S.Sudheer and M.Maruthi Rao "Analysis of Mechanical and Thermal Fatigue Failures of Piston Heads and Other Critical Parts of IC Engines- Issues and Challenges" Published in International Journal on Recent Researches In Science, Engineering & Technology, Volume 2, Issue 2, February 2014, pp- 925-933.

9. Anusha Peyyala, N.V.V.S.Sudheer“Evaluation of Mass Fluxes and Phase Parameters to Identify the Adiabatic two Phase FlowPatterns in Vertical And Horizontal Tubes.”International Journal Of Engineering Sciences & Research Technology, 3(11),November 30, 2014, pp 513-520.
10. R.Madhui Kumar, N.V.V.S.Sudheer “Performance of 2-stage PVC hot Cascade Type Ranque-Hilsch Vortex Tube” International Journal of Engineering Science & Management Research, 2 (9), Septemeber 2015,PP-111-117,
11. N.V.V.S.Sudheer, “Effect of Refrigerated air and Oxidizing Flame in Turning of Aluminium Metal Matrix Composite” BLB International Journal of Science & Technology, Special Issue, November 2015, PP-170-174.
12. Suresh Babu Koppula, N.V.V.S.Sudheer, “A Review on Effect of Adding Additives and Nano Additives on Thermal properties of Gear Box Lubrication” International Journal of Applied Research ISSN 0973-4562, Volume 11, Number 5 2016, pp 3509-3526.
13. M.Maruthi Raoand N.V.V.S.Sudheer, “Enhancement of Microstructure and Mechanical Properties of Al Alloys – Review” International Journal of Science, Engineering and Technology Research (IJSETR), ISSN: 2278 – 7798, Volume 5, Issue 4, April 2016, pp 1129-1143.
14. Anusha Peyyala, N.V.V.S.Sudheer, “Possibility of Using Refrigerant Blends In the Existing Refrigerator & AC Systems: A Review”, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 13, Issue 3 Ver. V (May- Jun. 2016), PP 63-70.
15. Anusha Peyyala, N.V.V.S.Sudheer, “Performance Analysis of A Single Cylinder Four stroke Diesel Engine Using Sunflower Oil as a Bio-Diesel Blend : An Experiment”, International Journal of Innovations in Engineering and Technology (IJJET), Volume 7, issue 1, June 2016,ISSN: 2319 – 1058, pp-647-656.
16. M.Maruthi Raoand N.V.V.S.Sudheer “Enhancement of Microstructure and Mechanical Properties of Al-Alloy using Biological Quenching Medium”, The IUP Journal of Mechanical Engineering, Vol X, No.2, May 2017, pp 42-51
17. M.Maruthi Raoand N.V.V.S.Sudheer “Experimentation on Structural and Mechanical Properties change of Al- Alloys Using Biological Quenching Medium” International Journal of Engineering Applied Science and Technology, Vol.1 Issue 9, July- August 2016.
18. N.Santhi Sree, N.V.V.S. Sudheer & P. Bhramara“THERMAL ANALYSIS OF CLOSED LOOP PULSATING HEAT PIPE” International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 8, Issue 2, Apr 2018, 21-36.
19. Suresh Babu Koppula, N.V.V.S.Sudheer, “Design Criteria for Hot Fluid Flowing in Inner Pipe of a Double Pipe Heat Exchanger” Published in IJETSR, Volume 4, issue 8, August 2017, ISSN 2394-3386.
20. Suresh Babu Koppula, N.V.V.S.Sudheer, “Study on Various Parameters in the Design of Double Pie Heat Exchanger on Hot Fluid Side in Inner Pipe” International Journal of Advance Reseach in Science and Engineering, ISSN(o):2319-8354, ISSN(P): 2319-8346, vol. no.06, Issue No. 12, December 2017.

CONFERENCES:

1. Suresh Babu Koppula, N.V.V.S.Sudheer, “Design Considerations for Cold Fluid Flowing in outer Pipe of a Pipe in Pipe Heat Exchanger” National conference on Innovative Approaches in Mechanical Engineering” Conducted by Department of Mechanical Engineering, St. Martin’s Engineering College, Secnderabad on 22nd and 23rd September,2017.
2. Suresh Babu Koppula, N.V.V.S.Sudheer, “Influence of Pressure Drop, Re and Temperature in The Design of Double Pipe Heat Exchanger on Hot Fluid Side in Inner Pipe” 9th international conference on Recent Development in Engineering Science, organized by Mahratta Chanmber of Commerce, Induatries and Agriculture Senapati Bapat Road, Pune on 23rd December 2017.
3. Suresh Babu Koppula, N.V.V.S.Sudheer, “Design Criteria for Hot Fluid Flowing in Inner Pipe of a Double Pipe Heat Exchanger” 6th International Conference on Research Trends in Engineering Applied Science and Management (ICRTESSM-2017) organized by conderece info in association with academic science at Institution of Electronics and Telecommunication Engineers, 1st Cross Road, Bellary Road, Ganganagar, Bengaluru on 6th August 2017.
4. Suresh Babu Koppula, N.V.V.S.Sudheer, “ “Influence of Pressure Drop, Re and Temperature in The Design of Double Pipe Heat Exchanger on Cold Fluid Side in Outer Pipe” National conference on Innovative Approaches in Mechanical Engineering Conducted by Department of Mechanical Engineering, St. Martin’s Engineering College, Secnderabad on 22nd and 23rd September,2017.
5. Dr.N.V.V.S.Sudheer and Dr. V.Chittaranjan Das “Effect of Eco Friendly High Heat Transfer rate Soapnut solution in turning of Aluminium Metal Matrix Composite.Proceedings of the 6th International and 27th AIMTDR 2016 conference, December 16-18, 2016, Department of Production Engineering and Industrial Management, College of Engineering, PUNE. India.
6. Dr.N.V.V.S.Sudheer and Dr. V.Chittaranjan Das “Optimization of Multiple performance Characteristics of the Electrical Discharge Machining process on Metal Matrix Composites using response surface methodology and desirability Approach”.Proceedings of the 6th International and 27th AIMTDR 2016 conference, December 16-18, 2016, Department of Production Engineering and Industrial Management, College of Engineering, PUNE. India.
7. Anusha Peyyala, Dr.N.V.V.S.Sudheer, “Importance of colour in Radiation Heat Transfer, National Conference on Advances in Mechanical and Materials Science (AMMS-2015) held at Vishnu Institute of Technology, 28th November 2015.
8. Dr.N.V.V.S.Sudheer, “Effect of Refrigerated air and Oxidizing Flame in Turning of Aluminium Metal Matrix Composite” National Conference on Product Design and Manufacturing, November 21-22, 2015, MNIT Allahabad, India.
9. Dr.N.V.V.S.Sudheer and Dr. K.Kartheeka Pavan “ Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning of Al/SiC MMc and Teaching-Learning –Based Optimization of Process Parameters, 5th International and 26th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2014, December 12-14, 2014, Deptmt of Mechanical Engineering, IIT Guwahati, Assam, India.
10. Dr.N.V.V.S.Sudheer and Dr. V.Chittaranjan Das “ Investigation on Influence of Refrigerated Air and High Heat Transfer Rate MQL in Turning of Aluminium Metal

- Matrix Composite, 5th International and 26th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2014, December 12-14, 2014, Department of Mechanical Engineering, IIT Guwahati, Assam, India.
11. N.V.V.S.Sudheer “Effect of High Heat Transfer Rate MQL in Turning of Aluminum Metal Matrix Composite” Proceeding of 2nd International conference on Industrial Engineering, November 20-22, 2013, NIT Surat.
 12. N.V.V.S.Sudheer, K.V.J.Rao and N.Rajesh “Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning Of Aluminium Metal Matrix Composite, Proceedings of the 4th International and 25th AIMTDR 2012 conference, December 14-16, 2012, Jadavpur University, Kolkata, India.
 13. N V V S Sudheer, KVJ Rao and G.Srinivasa Rao “Effect of Pressurized Refrigerated Air in Turning of Aluminium Metal Matrix Composite”, Proceedings of the International conference on Recent advances in Mechanical Engineering, INCROME-2011, April 21-22, 2011, Dr.M.G.R. Educational and Research Institute, University, Chennai.
 14. N V V S Sudheer, KVJ Rao and G.Srinivasa Rao “Optimal Cutting Conditions in Turning of Al/Sic MMC Based on Experiment and a Linear Programming Model”, 4th International Conference on Advances in Mechanical Engineering (ICAME2010), September 23-25, 2010, SVNIT, Surat, India.
 15. G.Srinivasa Rao, A.Neelakanteswara Rao and N.V.V.S.Sudheer “Performance Evaluation of Carbide Inserts on Surface Roughness”, Proceedings of the 3rd International and 24th AIMTDR conference, December 13-15, 2010, AU, Visakhapatnam, India, Vol.2, pp.647 - 651.
 16. C. srinivas, N.V.V.S.Sudheer “Modeling and Simulation of Multi Automated Guided Vehicles in factory layout” International Conference 15th ISME08, March 18th – 20th, 2008, Rajiv Gandhi Technological University, Bhopal.

11. Appreciation:

Management of R.V.R & J.C. College of Engineering appreciated me for the services rendered to the college and **Rewarded with an amount of Rs.25,000/-**.

12. Workshop organized:

Organized an orientation workshop (National) for SAE SUPRA and BAJA on 11th - 12th March 2016 with the coordination of SAE Hyderabad division. Students from various parts of India are participated in this workshop.

13. Seminars:

Organized national seminar on Ethics and Human values in Engineering on January 5-6, 2017.

14. Guest Lectures:

1. Delivered lecture on “Applications of High Heat Transfer Rate fluids in Manufacturing” at Tirumala Engineering College, Narasaraopet, Guntur, Andhra Pradesh.
2. Delivered lecture on “ Design and Analysis of Heat Exchangers” Saint Martins Engineering College, Hyderabad.

15. Chair person :

Acted as a chair person for the session Artificial Intelligence In Improving Productivity in 2nd International Conference on Industrial Engineering, ICIE 2013, November 20-22, 2013, organized by Department of Mechanical Engineering, S.V. National Institute of Technology, Surat.

16. Languages Ability : ENGLISH, HINDI & TELUGU. (speak, write & read)

(N.V.V.S.SUDHEER)