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### **CAREER OBJECTIVE**

Seeking a career where I can share my academic skills and abilities and that offers professional growth while being resourceful and innovative.

### **EDUCATIONAL QUALIFICATIONS**

| <b>COURSE</b>       | <b>YEAR</b> | <b>INSTITUTION&amp; UNIVERSITY</b>                                                          | <b>PERCENTAGE</b> |
|---------------------|-------------|---------------------------------------------------------------------------------------------|-------------------|
| M.E(ENGG DESIGN)    | 2010-2012   | Paavai Engineering College,<br>Pachal, Namakkal& Anna<br>University.                        | 7.96 CGPA         |
| B.E<br>(MECHANICAL) | 2007-2010   | Alagappa Chettiar College of engg &<br>technology, Karaikudi & Anna<br>University, Chennai. | 60%               |
| DME                 | 2001-2003   | Murugesan institute of technology,<br>Salem & DOTE                                          | 65%               |
| HSC                 | 1996-1998   | G.H.S.School, R.Puduppalayam.                                                               | 61%               |
| SSLC                | 1995-1996   | G.H.S.School, R.Puduppalayam.                                                               | 73%               |

**EXPERIENCE DETAILS**

| NAME OF THE COMPANY                                                                                  | YEAR OF EXPERIENCE | DESIGNATION                                                    | DURATION                      |
|------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------|-------------------------------|
| Josh Talks Private Limited<br>0-B, Boungainvillea Marg. DLF<br>phase 2, Sector25,<br>Haryana -122002 | 6 years 10months   | Linguistic Expert<br>(Transcription,<br>Translator, Recording) | Oct – 2018 to Till<br>Date    |
| Thirukumaran Enterprises,<br>3/8, V.G.Pudhur,<br>Ammapatti (po),<br>Udumalaipet (tk), Tiruppur.      | 2 Years            | General Manager                                                | Aug 2016 to July<br>2018      |
| K.Ramakrishnan college of<br>engineering, Trichy,<br>Tamilnadu, India.                               | 5 Years 3Months    | Assistant<br>Professor/mech                                    | Feb 2013 to<br>April 2018     |
| Paavai polytechnic college,<br>Namakkal.                                                             | 7 Months           | HOD/Automobile<br>Engg                                         | June 2012 to<br>December 2012 |
| Venkateswara polytechnic<br>college, pudukottai.                                                     | 3Year 4 Months     | Senior Lecturer                                                | January 2007 to<br>April 2010 |
| V.R Foundry, Coimbatore,<br>Tamilnadu, India.                                                        | 2 years            | Molding shop<br>Maintenance<br>Engineer                        | 2003-2004                     |

## **ROLES AND RESPONSIBILITIES FOR GENERAL MANAGER**

- Communicating with other managers regarding upcoming projects or changes in operations that may affect the department.
- Monitoring compliance with safety regulations and safety training requirements.
- Monitoring the performance of departmental supervisors to ensure that they are meeting performance standards and addressing any issues that may arise.
- Reviewing data from previous years to predict future demand for products or services.
- Developing and maintaining relationships with vendors to ensure adequate supply of materials or equipment.
- Reviewing reports produced by staff members on their progress towards goals and offering feedback if needed.
- Evaluating current operations and making recommendations for improvement based on data analysis.
- Reviewing employee performance to ensure that they are meeting company standards and communicating with supervisors about any issues that arise.
- Reviewing employee training records to ensure that employees are receiving the training they need to perform their jobs safely and effectively.

## **SOFTWARE SKILLS**

AUTO CAD PRO-E

BASICS OF

ANSYS

MATLAB

MS

OFFICE

## PUBLICATIONS DETAILS

### INTERNATIONAL JOURNALS: - 07

- 1) Ganesh.N, Udaya Kumar.M, Vinoth Kumar.C and Santhosh Kumar. B “**OPTIMIZATION OF CUTTING PARAMETERS IN TURNING OF EN 8 STEEL USING RESPONSE SURFACE METHOD AND GENETIC ALGORITHM** “ , International Journal of mechanical Engineering and Robotics Research, Vol. 3, No. 2, pp 75-86, April 2014 , ISSN: 2278 – 0149
- 2) Elayaraja.D, Ramakrishnan.R, Udayakumar.M and Ramabalan.S “**INTELLIGENT CONTROL OF MOBILE ROBOT USING C++ ALGORITHM**” , International Journal of mechanical Engineering and Robotics Research, Vol. 3, No. 2, pp 429-434, April 2014 , ISSN: 2278 – 0149
- 3) Vijayan.V, Karthikeyan.T, Udayakumar.M, Chellamuthu.K “**Passive Vibration Isolation by Compliant Mechanism Using Topology Optimization**”, International Journal of Acoustics and Vibration, Vol. 19, No. 4, 2014 (pp. 269\_275), ISSN: 1027-5851. **Annexure –I**
- 4) Udaya kumar.M, Swaminathan.M, Karthikeyan.n, Prakash.B “**Sem Analysis and Mechanical properties prediction of serial drilled holes in fibrous composite structure using ANSYS**”, SSRG International Journal of Mechanical Engineering (SSRG-IJME),S IJME special issues , ICETSH PART-1, pp 23-31, 2015, ISSN: 2348 – 8360.
- 5) Udayakumar.M, Indrajith.P “**Design and Analysis of Compliant Mechanism for Vibration Isolator Using Topology Optimization**”, SSRG International Journal of Mechanical Engineering (SSRG-IJME), IJME special issues , ICETSH PART-1, pp 1-9, 2015, ISSN: 2348 – 8360.
- 6) Udaya kumar .M, Sujith .M, Sivakumar .M, Thangavel .N , Vignesh.B,Vinothkumar .G “**Effect of Mechanical properties and sem test analysis of different stacking sequence of Sisal,Coir and Glass fibre composite material**”, SSRG International Journal of Mechanical Engineering (SSRG-IJME), IJME special issues , ICETSH PART-2, pp 6-12, 2015, ISSN: 2348 – 8360.
- 7) Natarajan.R, S.Ramabalan.S, Udayakumar.M “**Mechanical Properties of Combi mat [csm & wrm]**”, International Journal of Applied Engineering Research, Vol. 10 No.51 (2015), pp643-647, ISSN 0973-4562. **Annexure – II**

## INTERNATIONAL CONFERENCE : 06

- 1) Udayakumar.M, “EVALUATION OF MECHANICAL PROPERTIES OF DIFFERENT STACKING SEQUENCE OF FIBER REINFORCED POLYESTER COMPOSITE LAMINATES” , **International Conference On Recent Innovations in Engineering (ICRE '14)**, 13-14th March-2014, Sri Subramanya college of engineering and technology, Palani, Tamilnadu, India.
- 2) Udayakumar.M, “SEM ANALYSIS AND MECHANICAL PROPERTIES PREDICTION OF E-GLASS WITH VINYL ESTER COMPOSITE MATERIAL”, **Indo-Brazil Bilateral International Conference on Advanced Materials and Manufacturing – ICAMM 2015**, 27-28th March-2015, Cape institute of Technology, tirunelveli, Tamilnadu, India.
- 3) Udayakumar.M, “SEM ANALYSIS AND MECHANICAL PROPERTIES PREDICTION OF SERIAL DRILLED HOLES IN FIBROUS COMPOSITE STRUCTURE USING ANSYS”, **International Conference on Engineering Trends and Science & Humanities (ICETSH-2015)**, 30th March-2015, Imayam college of engineering , Trichy, Tamilnadu, India.
- 4) Udayakumar.M, “EFFECT OF MECHANICAL PROPERTIES AND SEM TEST ANALYSIS OF DIFFERENT STACKING SEQUENCE OF SISAL, COIR AND GLASS FIBRE COMPOSITE MATERIAL”, **International Conference on Engineering Trends and Science & Humanities (ICETSH-2015)**, 30th March-2015, Imayam college of engineering , Trichy, Tamilnadu, India.  
Udayakumar.M, “DESIGN AND ANALYSIS OF COMPLIANT MECHANISM FOR VIBRATION ISOLATOR USING TOPOLOGY OPTIMIZATION”, **International Conference on Engineering Trends and Science & Humanities (ICETSH-2015)**, 30th March-2015, Imayam college of engineering , Trichy, Tamilnadu, India.
- 5) Udayakumar.M, “MECHANICAL PROPERTIES OF COMBI MAT [CSM & WRM]”, **International Conference on Advances in materials and mechanical engineering (ICAESM 2015)**, 8-9th May-2015, EGS Pillay engineering college, Nagapattinam, Tamilnadu, India.

## NATIONAL CONFERENCE : 02

- 1) Udayakumar.M, “EFFECT OF STACKING SEQUENCE IN NATURAL FIBER-POLYESTER LAMINATE”, **National level conference TIME-12, 14<sup>th</sup>** February-2012, Annai mathammal sheela engineering college, Namakkal, Tamilnadu, India.
- 2) Udayakumar.M, “BUCKLING ANALYSIS OF E-GLASS FIBER & VINYL ESTER BY USING ANSYS SOFTWARE”, **4<sup>TH</sup> National conference latest trends in mechanical engineering (LTIME 2K15)**, 27<sup>th</sup> February-2015, K.Ramakrishnan college of engineering, Trichy, Tamilnadu, India.

## MEMBERSHIP

- BOARD MEMBER OF INTERNATIONAL JOURNAL OF ENGINEERING TRENDS AND TECHNOLOGY FOR SSRG (Id : SSRGJ-IJETT-1244)
- REVIEWER OF AFRICA DEVELOPMENT AND RESEARCH INSTITUTE (ADDRI)
- REVIEWER OF SAGE PUBLICATION OF JOURNAL OF VIBRATION CONTROL (JVC) (ANNA UNIVERSITY ANNEXURE REFERRED JOURNAL)

## THEORY SUBJECTS HANDLED

| UNDER GRADUATE (MECHANICAL)                | POST GRADUATE<br>(ENGINEERING DESIGN) |
|--------------------------------------------|---------------------------------------|
| DYNAMICS OF MACHINERY(4)                   | VIBRATION ANALYSIS & CONTROL(4)       |
| DESIGN OF MACHINE ELEMENTS(4)              | INTEGRATED MECHANICAL DESIGN(2)       |
| DESIGN FOR TRANSMISSION<br>SYSTEM(4)       | DESIGN PARADIGM(1)                    |
| FINITE ELEMENT ANALYSIS(2)                 | COMPOSITE MATERIALS & MECHANICS(3)    |
| BASICS OF CIVIL<br>&MECHANICAL ENGG(2)     |                                       |
| PROCESS PLANNING AND COST<br>ESTIMATION(3) |                                       |
| ENGINEERING MECHANICS(2)                   |                                       |

## PRACTICAL SUBJECTS HANDLED

### DYNAMICS LAB (4)

The objective of this lab is to impart practical knowledge on design and analysis of mechanisms in the machine tools and automobiles. In Machine Dynamics Lab, the students are doing the experiments related to their theory subjects like Engineering Mechanics, Machines and Mechanisms and Fundamentals of Vibration and Noise.

Various equipments like governors, gyroscopes, balancing machines and universal vibration facilities are available to understand machine dynamics. The working models of simple mechanisms like gears, cams and followers are very much useful to understand Basic Mechanical Engineering subject for 1st year students.

The vibration equipment's are well established in dynamics lab. The vibration exciter, accelerometers (uni-axial and tri axial), data acquisition card, forcing hammer are used to measure the vibration behavior under induced and self excitation conditions. The VMAP software is used to convert the time domain data to frequency domain data and it gives the mode shapes of the vibrating components. The VMAP software is able to compare the experimental mode shapes to ANSYS mode shapes.

The machine tool dynamometers for lathe, drilling machine and milling machine are used to measure the dynamics forces induced during working condition. The machine tool chatter vibration behavior is analyzed from these force data.

## **COMPUTER AIDED DESIGN LABORATORY (4)**

The CAD laboratory can work with 2-D and 3-D design and analysis packages. The users are encouraged to learn, practice and apply the knowledge gained into their research areas. Initially this facility is introduced mainly for students to evolve concepts and convert it into a complete product.

The CAD lab provides digitally integrated environment where the users can design, analyze, simulate and build components. The Laboratory has the following section:

Engineering graphics

Geometric Modeling

Finite Element

Analysis Product

Development Rapid

Prototyping

## **STRENGTHS OF MATERIALS LABORATORY (2)**

Strength of materials laboratory is well equipped with destructive testing machineries. Students will be able to understand the theoretical concepts of solid mechanics course and enable them to apply it practically in this lab. Different types of tests are being conducted in this laboratory to know the various mechanical properties of a material such as young's modulus, shear modulus, hardness, toughness, deflection, fatigue strength etc.

Student's project works on testing of various materials like composite materials, ferrous and nonferrous alloys have also been done in this laboratory. Students are also utilizing this lab for the preparation of specimen to be tested. A Unique feature of this lab is the "Universal Testing Machine (UTM)".

## **ACHIEVEMENTS**

- Conducted the national conference at k.ramakrishnan college of engineering on 2013 .
- Collected cash award from krce for produced 100% result (6 times for the subjects such that dom, vac, dp& cmm)
- Achieved council of erope level a2 from university of cambridge esol examinations on march 2012.
- Participated one day workshop at krce on 22-08-2013. Guided 6 pg projects  
& 6 ug projects.

**PERSONAL DETAILS**

Father's Name : Mr.K.Murugesan  
Mother's Name : Mrs.M.Santhi  
Date of Birth : 08-04-1980  
Nationality : Indian  
Languages known : English & Tamil  
Address : Church Street, R.Puduppalayam  
(P.O), Rasipuram (T.K),  
Namakkal-637408. Tamilnadu,  
India.  
Contact no. : +91 8838064254

I hereby declare that all the information provided by me in this application is factual and correct to the best of my knowledge and belief.

Place: Rasipuram

Date:

M.UDAYAKUMAR





