

RESUME



BALAJI. N

3/203,A, pps complex.,
North kattur,
Pappakurichi main road,
Trichy-620019
Phone-8220309324
412420001@nitt.edu ,ji.mech88@gmail.com

Objective

To be associated with a professional institution, where I can best utilize my skills and take up challenging tasks that provide benefit to the institution and anchor my technical skills and academic cognizance.

Educational Details

| Course | Authority | Year | Performance |
|--|--|---------------|--|
| <i>PhD Metallurgical and Materials Engineering</i> | National Institute of Technology, Tiruchirappalli-620015 | 2020-Pursuing | CGPA – 8.5 |
| <i>M.E- Mechanical Engineering (Computer Integrated Manufacturing)</i> | PSG College of Technology, Coimbatore-641004 | 2014-2016 | CGPA-7.83 |
| <i>B. E-Mechanical Engineering</i> | Trichy Engineering college, Tamil Nadu. | 2010-2013 | CGPA -7.87 GATE 2014 QULIFIED |
| <i>Diploma in Mechanical Engg.</i> | Dote, Tamil Nadu. | 2006-2009 | 90% |
| <i>SSLC</i> | St.Antonys high school, State board Tamil Nadu. | 2003-2004 | 81.0% |

Computer Skills

| Technology | Details |
|------------------|--|
| <i>Tools</i> | Auto-CAD, Solidworks, ANSYS, ABAQUS CAE, |
| <i>MS Office</i> | Office Excel, Word, Publisher & Power Point. |

Projects Undertaken in Academic

| Research Work | Details |
|--|---|
| <i>AUTOMATIC BREAKING IN CAR USING ULTRA SONIC WAVE</i> | Duration: 6 months (2009) Responsibilities: To design and fabrication with our project members Reference : Mr. Prakash (<i>Asst. Prof</i>) |
| <i>CUSTAMISE SPANNER</i> | Duration: 6 months (2012) Responsibilities: To design a interface for various users including students Reference: Mr. RAMESH (<i>Asst. Prof</i>) |
| <i>ELECTRICAL DISCHARGE MACHINING(EDM)</i> | Duration: 6 months (2013) Responsibilities: To Calculate machining parameter for OHNS STEEL STAINLESS STEEL Reference : Mr. john raj (<i>Asst. Prof</i>) |
| <i>PVD Coating in Inserts</i> | Duration: 12 months (2016) Responsibilities: To Optimize the process Parameters for coating Reference : Dr. J. Kachana (<i>Prof</i>) |
| <i>Friction Welding</i> | Duration: 8 months (2018) Responsibilities: Design and Analysis in Friction Welding Reference : Dr. C Shanjeevi (<i>Asst. Prof</i>) |
| <i>Metal Forming</i> | Duration: From July 2020- Pursuing Responsibilities: Formability Assessment of Niobium Based Alloy C103 Using the Incremental and Spin Forming Process for Rocket Engine Nozzle Applications. Reference : Dr. D. Nagarajan (<i>Asst. Prof</i>) |

Experiences and Certifications

| Organization/Firm | Experience Details |
|--|--|
| <i>In Plan Training in "GOLDEN ROCK" Ponmalai Trichy.</i> | Completed a 15 days training in GOLDEN ROCK work shop in year of 2008 |
| <i>Apprenticeship in BHEL, Trichy Unit.</i> | Completed a one year with valuable knowledge & certificate in the year of 2009 (Pressure Parts in Header Shop) |
| <i>Working Experiences G.B Industries Pvt Ltd</i> | One year worked as Supervisor in Pressure and non- pressure parts (boiler accessories, beams, columns, ducts & machining |

| | |
|---|--|
| | parts).(2013-2014) |
| Vel Tech Rangarajan Dr. Sanguthala R&D Institute of Science and Technology | Two years worked as Assistant Professor in Mechanical Department.(2017-2019) |

Areas of Interest

- Fabrications & productions
- Material Science
- Metal Forming

Journals Published

| SI. No. | Paper Title | Authors | Year of Publications | Journals Name and Publishers | Volume, Issue and Pages |
|---------|---|--|----------------------|---|------------------------------------|
| 01 | Manufacturing of Micro Electrodes and Micro Hole Drilling on Titanium Plate | M.Parthiban, V. Krishnaraj, J.Kanchana, N. Balaji | 2016 | Ciencia e Tecnica Vitivinicola, PORTUGAL | Vol.31 & 151-167 |
| 02 | Parameter Design and Analysis in Friction Welding of Brass Material Using Grey Relational Analysis | C Shanjeevi, J Thamilarasan, N Balaji | 2019 | Advances in Manufacturing Processes, Springer | Issue: ISSN:0254-0223 & 341-348 |
| 03 | Optimization and characterization of Si ₃ N ₄ layer for wear resistant Ti-Al-N/Si ₃ N ₄ nano-composite coatings | Balaji N, Sivakumar C, Arun kumar P | July, 2019 | International Journal of Innovative Technology and Exploring Engineering (IJITEE) | ISSN: 2278-3075, Volume-8 Issue-9 |
| 04 | Effect of Geometrical Parameters in Coefficient of Discharge and Reynolds Number through Venturimeter | G V Chaitanya, A Shivam Singh, R Gautham, A Pavan Kumar Reddy, N Balaji | October, 2019 | International Journal of Innovative Technology and Exploring Engineering (IJITEE) | ISSN: 2278-3075, Volume-8 Issue-12 |

Paper Presented in Conference

- Presented a paper in International Conference conducted by IIM, Coimbatore, on the title “**Optimize the process Parameters for PVD Coating**” during 16-Nov-2015.
- Presented a paper in International Conference conducted by PSG College of Technology, Coimbatore, on the title “**Manufacturing of Micro Electrode and Manufacturing Micro Holes in Titanium Plate**” during 09-Jan-2016.
- Presented a paper in National Conference conducted by PSG College of Technology, Coimbatore, on the title “**Optimization and Characterization of Si₃N₄ layer for Wear Resistant Ti-Al-N/Si₃N₄ Nano-Composite Coating**” during 22-April-2016.

Responsibilities Held

- NAAC Accreditation Committee Member
- NBA Accreditation Committee Member
- Class In-Charge for III Year students at Vel Tech Rangarajan Dr. Sanguthala R&D Institute of Science and Technology, Avadi, Chennai.

Personal Details

| | Details | | | | |
|------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Father Name | Nallusamy.P | | | | |
| Mother Name | Selvarani N | | | | |
| Mother Tongue | Tamil | | | | |
| Nationality | Indian | | | | |
| Date of Birth | 19 th May, 1989 | | | | |
| Languages Known | Language | Read | Write | Speak | Understand |
| | <i>English</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <i>Tamil</i> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | <i>Telugu</i> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Interests and Hobbies | Reading self-motivation books, Listening songs and Playing cricket. | | | | |

Academic Achievements

- Secured Third rank in Academic Proficiency during Diploma First year.
- Secured First rank in Academic Proficiency during Diploma Second Year.
- Secured Second rank in Academic Proficiency during Diploma Third Year.
- Secured Third rank in Academic Proficiency during B.E Third Year.

Personal Strengths

- Self-Confident, Hardworking and a dynamic person.
- Sincerity towards job and Punctuality.
- Ability to adapt to new and challenging environments.
- Honest and Trustworthy.

Declaration

I hereby declare that the details mentioned above in my resume are correct to the best of my knowledge and belief. I bear the responsibility of any error or mistake in the data if occur in the future.

Place: Tiruchirappalli

Date: 03.11.2021



[BALAJI N]