

# Curriculum Vitae

**ROSHITH P** B.E, M. Tech, (PhD)

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## Career Objective

Dedicated individual seeking for a mechanical engineering job position in an organization to utilize the ability of prioritizing work options in an effective manner for the greater benefit of the company.

## Experience

### Industrial Experience (6 months)

- ☐ Former Graduate Apprentice Trainee at **Neyveli Lignite Corporation - Mine 2** (NLC India LTD) From 29/01/2017 to 15/07/2017.
  - ☐ Worked in conveyor zone, Mech zone and SME zone
  - ☐ Learned about issues in conveyor belt clamps
- ☐ In plant trainee at Southern Railway (Erode), Duration-one week

### Research Experience (4.5 years)

- ☐ Extensively worked in the field of Metallurgy and Metal Joining, as a part of the final year MTech project. Has done collaborative research work along with leading Indian scientists Dr **G. Padmanabham** and **Shri. K V. Phani Prabhakar** of Centre for Laser Processing of Materials, International Advanced Research Centre for Powder Metallurgy & New Materials (**ARCI**), Balapur, Hyderabad, India in the field of metal joining by laser welding.
- ☐ Also actively worked with **Dr Srinivasan A** (Senior **Scientist at CSIR**, National Institute for Interdisciplinary Science, Thiruvananthapuram, India) while pursuing PhD in manufacturing technology. The main areas covering the PhD work were characterization of mechanical and metallurgical properties of weldment and hot corrosion study on fully austenitic stainless steel.

### Teaching Experience (3.8 years)

- ☐ I have worked as an Assistant professor, HOD at Malabar Institute of Technology (MIT), Kannur (8 months).
  - ☐ Taught subjects such as Mechanics of solid, Automobile engineering, Gas dynamics, Heat

and mass transfer and sustainable energy process and engineering thermodynamics.

- ☐ Part of Kannur University internal improvement exam.
- ☐ Appointed as Examiner to the KTU (APJ Abdul Kalam Technological University) centralized Valuation Camp for Valuation of answer scripts.
- ☐ Advisory member of the College Admissions Committee
- ☐ College Grievance committee coordinator.
- ☐ Hostel committee member
- ☐ Internal Examiner of BTech Comprehensive Exam (Oral Examination)
- ☐ Coordinator of both Covid vaccine drive and Time table management in the Mechanical engineering department.

- ☐ Former Teaching cum Research Associate (TRA) at **Vellore Institute of Technology, Vellore** from 01/12/2017 to 30/11/2020.

- ☐ Be involved in the assessment of student knowledge and supervision of projects
- ☐ Assist in the development of student research skills
- ☐ Transfer knowledge in the form of practical skills, methods and techniques
- ☐ Helped in the NAAC accreditation works

### **Educational Qualification**

<b>Course</b>	<b>Year</b>	<b>CGPA/ Percentage &amp; class</b>	<b>Institute</b>	<b>University</b>
PhD (Manufacturing Technology)	Pursuing (2017 onwards)	-	Vellore Institute of Technology, Vellore	Vellore Institute of Technology, Vellore
M. Tech (Engineering Design-Full Time)	2014 – 2016	7.18/10 (First class)	Amrita School of Engineering, Coimbatore	Amrita Vishwa Vidyapeetham
B.E (Mechanical Engineering-Full Time)	2010 – 2014	8.66/10 (Distinction)	PPG Institute of Technology (Coimbatore)	Anna University, Chennai
HSC	2007 – 2009	78.6% (First class)	G.V.H.S.S, Madappally	Kerala state board
SSLC	2007	92% (Distinction)	G.V.H.S.S, Madappally	Kerala state board

### **Patents**

- ☐ Sensor based intelligent robotic cooking kitchen using haptic technology (Indian patent Published on 10/12/2021)

### **International Journal Publication ( Scopus & SCI indexed)**

- ☐ Arivarasu, M., Roshith, P., Padmanaban, R., Thirumalini, S., Phani Prabhakar, K.V. and Padmanabham, G., 2017. Investigations on metallurgical and mechanical properties of CO2 laser beam welded Alloy 825. Canadian Metallurgical Quarterly, 56(2), pp.232-244.

- Roshith, P., Arivarasu, M., Arivazhagan, N., Srinivasan, A. and KV, P.P., 2019. Investigations on induced residual stresses, mechanical and metallurgical properties of CO<sub>2</sub> laser beam and pulse current gas tungsten arc welded SMO 254. *Journal of Manufacturing Processes*, 44, pp.81-90.
- Roshith, P. and Arivarasu, M., 2020. Hot corrosion studies on fully austenitic stainless steel in air oxidation and simulated waste heat incinerator environment at 600° C, 650° C and 700° C. *Materials Research Express*, 6(12), p.1265d1.
- Roshith, P. Enhancement of metallurgical and mechanical properties of the materials by performing CO<sub>2</sub> Laser beam welding. *Welding International*. August 17 2021, VOL. 35, NOS. 1–3, 59–80.
- Roshith, P. Enhancement of stress corrosion cracking resistance, fatigue life, tensile strength and microhardness due to the formation of compressive residual stress after the shot peening process. *Australian Journal of Mechanical Engineering* (Under review)
- Ramesh B, Roshith P, Thanikasalam A. Comparison of Al<sub>2</sub>O<sub>3</sub>-reinforced sintered and extruded AA2014 nano-hybrid composite particle size effects on mechanical and metallurgical characteristics. *SPAST Abstracts*. 2021 Oct 23;1(01).

### **Editorial Board Member**

- Materials Engineering Research
- Online journal of mechanical engineering
- Blue Eyes Intelligence Engineering and Sciences Publication
- Lattice Science Publication

### **Reviewer Activity**

- Materials Engineering Research
- Current Materials Science
- Applied Mechanics and Materials (AMM)
- AMR: Advanced Materials Research
- Recent Patents on Mechanical engineering
- International Journal of Research and Scientific Innovation (IJRSI)
- American Journal of Mechanical and Materials Engineering (AJMME)
- International Journal of Engineering Research & Technology (IJERT)
- International Journal of Science and Engineering Development Research (IJSER)
- International Journal of Research and Innovation in Social Science (IJRISS)
- International Journal of Materials Science and Applications (IJMSA)
- Advances in Technology Innovation

### **Professional Body Memberships**

- American Society of Mechanical Engineers (ASME 000103361207)
- International Association of Engineers (IAENG 266081)
- American Society for Testing and Materials (ASTM International 2250100)
- American Welding Society (AWS 40163616)
- International Society for Development and Sustainability (ISDS)
- All India council for Technical Skill Development (AICTSD)
- Society of petroleum engineers (SPE)

## **Areas of Research Interest**

- ☐ CO<sub>2</sub>LB welding & PCGTA welding
- ☐ Shot peening and Laser shock peening
- ☐ Hot corrosion
- ☐ Thermal coating
- ☐ Manufacturing Technology

## **Proficiency**

### **(a) Microstructure Analysis**

- ☐ Ni superalloys
- ☐ Austenitic stainless steel

### **(b) Instrumental Data Analysis**

- ☐ Optical Microscope (Microstructure)
- ☐ Vikers Microhardness tester
- ☐ Non-Contact Optical Profiler (Surface roughness)
- ☐ Field Emission Scanning Electron Spectroscopy (Characterization of fractured, corroded, & worn surface)
- ☐ Energy Disperse X-ray Spectroscopy (Elemental analysis)
- ☐ Atomic force microscopy (AFM)
- ☐ X-ray residual stress measuring instrument
- ☐ Laser shock peening instrument
- ☐ shot peening instrument
- ☐ Hot corrosion tubular furnace
- ☐ Universal testing machine (UTM)

## **Online Courses**

- ☐ Material Behavior( Coursera -Georgia Institute Of Technology, USA)
- ☐ Materials Science: 10 Things Every Engineer Should Know( Coursera -University of California, Davis, USA)
- ☐ Material Processing ( Coursera -Georgia Institute Of Technology, USA)
- ☐ Ferrous Technology I ( Coursera -Pohang University of Science and Technology, South Korea)
- ☐ Methods of Surface Analysis! ( ( Coursera -National Research Nuclear University MEPhI, Russia)
- ☐ Air Pollution – a Global Threat to our Health( Coursera -University Of Copenhagen, Denmark)
- ☐ Advanced Manufacturing Enterprise( Coursera -University at Buffalo & State University of New York )
- ☐ Introduction to solar cells( Coursera -Technical University of Denmark (DTU) )
- ☐ Advanced Manufacturing Process Analysis! ( Coursera -University at Buffalo & The State University of New York )
- ☐ Introduction to Indoor Air Quality ( Coursera-The Hong Kong University Of Science And Technology )
- ☐ Philosophy, Science and Religion: Science and Philosophy! ( Coursera-The University of Edinburgh, Scotland )

- ❑ Fundamentals of Engineering Exam Review( Coursera-Georgia Institute of Technology, USA )
- ❑ The Effect of Fires on People, Property and the Environment ( Coursera-University of Maryland, College Park, USA )
- ❑ Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship ( Coursera-University of Maryland, College Park, USA )
- ❑ COVID-19 Contact Tracing (Coursera - Johns Hopkins University, USA )
- ❑ How Things Work: An Introduction to Physics! (Coursera-University of Virginia, USA)
- ❑ Biohacking Your Brain's Health (Coursera-Emory University, Georgia)
- ❑ Introduction To Personal Branding! (Coursera-University of Virginia, USA)
- ❑ The Addicted Brain! (Coursera-Emory University, Georgia)
- ❑ Vital signs: Understanding What The Body Is Telling Us ! ( Coursera - University of Pennsylvania, USA)
- ❑ Philosophy and the Sciences: Introduction to the philosophy of physical sciences! ( Coursera - The University of Edinburgh, UK )
- ❑ AstroTech: The Science and Technology behind Astronomical Discovery! (Coursera – The University of Edinburgh, UK)
- ❑ Know Thyself-The Value and Limits of Self Knowledge: The Unconscious! (Coursera-The University of Edinburgh, UK )
- ❑ Origins - Formation of the Universe, Solar System, Earth and Life! ( Coursera - University Of Copenhagen, Denmark)
- ❑ Fundamentals of Quantitative Modeling (Coursera- University of Pennsylvania, USA)
- ❑ Integrated Marketing Communications: Advertising, Public Relations, Digital Marketing and more (Coursera- IE Business School, Spain)
- ❑ Lending, Crowdfunding, and Modern Investing (Coursera- University of Pennsylvania, USA)
- ❑ Six Sigma and the Organization (Advanced) (Coursera- University System of Georgia, USA)
- ❑ Communicating Business Analytics Results (Coursera - University of Colorado Boulder, USA)
- ❑ The Business of Social (Coursera - Northwestern University, USA)
- ❑ Portfolio and Risk Management (Coursera - University of Geneva, Switzerland)
- ❑ Deep Learning for Business ( Coursera - Yonsei University, South Korea)
- ❑ The manager's Toolkit: A Practical Guide to managing people at work ( Coursera - University of London )
- ❑ Financial and Profiting from innovation for corporate Entrepreneurs ( Coursera - University of Maryland, College Park, USA )
- ❑ The power of Team Culture( Coursera - University of Pennsylvania, USA)
- ❑ Master class for Corporate Entrepreneurs! (Coursera - University of Maryland, College Park, USA)
- ❑ Introduction to Philosophy ( Coursera - The University of Edinburgh, Scotland, UK)
- ❑ The moral foundation of Politics - (Coursera - Yale University, USA)
- ❑ Managing Social and Human Capital (Coursera - University of Pennsylvania, USA)
- ❑ Survey analysis to Gain Marketing Insights (Coursera - Emory University, USA)
- ❑ Electric Power Systems( Coursera - University at Buffalo & The State University of New York )
- ❑ Introduction to Supply Chain Finance & Blockchain Technology! (Coursera - New York Institute of Finance)

- ❑ Global Sustainability and corporate social responsibility: Be sustainable! (Coursera - Macquarie University, Australia)
- ❑ International Business II (Coursera - University of New Mexico, USA)
- ❑ Supply Chain Management: A Learning Perspective! (Coursera - Korea Advanced Institute of Science and Technology (KAIST))

### **Events Organized**

- ❑ Organized a program 'ENRICH' 21 to nourish the knowledge of HSC passed out students.
- ❑ Conducted Mech Prize scholarship test to final year students of Malabar Institute of Technology, Anjarakandy in corporation with National Council for Technology and Training, New Delhi (NACTET).

### **FDP, Workshops, Conferences & Symposiums Attended**

- ❑ The art of engineering graphics (FDP - Department of Mechanical Engineering, Sree Chitra Thirunal College of Engineering, Pappanamcode, Thiruvananthapuram.)
- ❑ Art of Writing Research article and IPR (FDP- Department of information science and Engineering, Sri Krishna Institute of Technology)
- ❑ An Insight to Engineering Fluid Dynamics and Its Applications in Industry (FDP Department of Mechanical Engineering, LBS College of Engineering Kasaragod under the aegis of APJ Abdul Kalam Technological University)
- ❑ Solar energy applications-workshop (PPG Institute of Technology)
- ❑ Advanced materials and joining processes-workshop (Amrita Vishwa vidyapeetham)
- ❑ International Conference on Materials and Manufacturing Methods(mmm'19)(NIT, Trichy)
- ❑ Introduction To Welding Simulation & Basic Training Course on SYSWELD- workshop (VIT University)
- ❑ Emerging trends in welding technology-workshop (National level Workshop at VIT University, Vellore)
- ❑ Waste Management: Issues and Concerns (workshop)-Jaypee University of Information Technology, Himachal Pradesh
- ❑ Air pollution and health hazards (APHH-2021)-Punjab pollution control board & Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab
- ❑ Energy Positive Buildings & Sustainable Transport (Workshop)- University of Exeter (U.K.) and Vellore Institute of Technology (India)
- ❑ Entrepreneurship Development (Workshop)- Department of Mechanical Engineering, Amet University, Chennai.
- ❑ Advanced trend in mechanical engineering-symposium(Nandha college of technology)
- ❑ State-level symposium, RIOGA'11(KGiSL Institute Of Technology, Coimbatore)
- ❑ National level technical symposium (J FINAGLES 2K-12-JCT college of engineering and technology.

### **Webinars Attended**

- ❑ Metal Technology - Institution of Mechanical Engineers
- ❑ A day in the Life of an Engineer working at SpaceX - ASME
- ❑ Power and Responsibility: Teaching Ethics and Adaptive Leadership in a Time of

#### Crisis - Harvard Business Publishing Education

- ☐ Peer Review: The backbone of the publishing process – WILEY
- ☐ Best Practices for Control of the Melting Process in Foundries-Hitachi High-Tech & ASM international
- ☐ Opportunities and challenges in Industries 4.0 - Arasu Engineering College, Kumbakonam
- ☐ Grinding of Glass fibre Reinforced Polymer Composite - Chennai Institute of Technology
- ☐ Effective Scientific Writing Skills - K.L.E Society's Basavaprabhu Kore Arts, Science and Commerce College, Chikodi
- ☐ Thermal behaviour of Materials - Annamalai University
- ☐ Online Teaching - A New Approach - St Xavier's College for Women, Aluva
- ☐ Zero defect and Zero effect -ZED certification for MSME - Indian Machine Tool Manufacturers' Association
- ☐ Innovations in Advanced Materials Processing and Manufacturing (IAMPM-2020) - CIMR, Vellore Institute of Technology, Vellore
- ☐ Innovations in Product Design and Sustainable Manufacturing -IPDSM 2020 - Government College of Engineering, Kalahandi, Odisha
- ☐ Sustainable Electronic Waste Recycling & Management in India- Ministry of Electronics and Information Technology, Government of India(CRRP)-Sona College of Technology, Salem
- ☐ Advance in colloidal and polymeric systems(ACAPS-2020)-Chemical engineering, Vellore Institute of Technology, Vellore
- ☐ How to publish papers in high ranking journals?-Marathwada Mitra Mandal's Institute of Technology, Pune
- ☐ Career Guidance for Mechanical engineering-Musaliar College of Engineering Kerala
- ☐ Recent Advancement in Nano/Micro Mechanical Testing- VIT- Vellore and Labindia Instruments Pvt. Ltd.
- ☐ Thermal management of buildings- Kings engineering college, Chennai
- ☐ Acoustic emission signal monitoring during Manufacturing process- Kings engineering college, Chennai
- ☐ Industrial automation-Department of Mechanical Engineering, MECON Association and SAEKRCT Collegiate Club, K.Ramakrishnan College of Technology, Samayapuram, Trichy on 26th November2021.

#### **Honours and Awards**

- ☐ First rank holder in the mechanical engineering department during BE second year
- ☐ Received Raman research award twice during the PhD pursuing time.

#### **Industrial Visit**

- ☐ Visit in Windmill station (Palladam) conducted by TUV Rheinland
- ☐ Mettur Thermal powerplant
- ☐ Ammarun foundaries Coimbatore

#### **Extra-Curricular activities**

- ☐ Participated in college chess competition events
- ☐ College NSS volunteering events

- College workshops volunteering events

## Personal Profile

Father's name	Suresh P
Occupation	Retired Railway staff
Mother's name	Pushpa P
Date of birth	25-11-1991
Gender	Male
Marital status	Single
Nationality	Indian
Hobbies	Playing chess & Swimming, football, Internet browsing, gardening and yoga practice.
Passport & Driving license number	K5225189&TN38 20130001951
Languages known	Malayalam (S/R/W), English (S/R/W), Tamil (S/R), Hindi (R/W)

## Link To Professional Profiles

- **Linkedin:** <https://www.linkedin.com/in/roshith-p>
- **Scopus :** <https://www.scopus.com/authid/detail.uri?authorId=57194130481>
- **Website:** <https://sites.google.com/view/roshith-p/home>
- **Research gate:** [https://www.researchgate.net/profile/Roshith\\_p](https://www.researchgate.net/profile/Roshith_p)
- **Publons:** <https://publons.com/researcher/1701791/roshith-p/>
- **Google Scholar:** <https://scholar.google.com/citations?user=uF--XwYAAAAJ&hl=en&authuser=1&oi=ao>
- **ORCID:** <https://orcid.org/0000-0001-9639-3467>
- **Semantic scholar :** <https://www.semanticscholar.org/author/P-Roshith/113789297>
- **Academia.edu:** <https://vit.academia.edu/RoshithP>
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## References

### Dr. Sivadasan Kottayi

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### Dr. R. Vaira Vignesh

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**Declaration**

I hereby declare that the above furnished details are true to the best of my knowledge and belief.

**Date :**

**Yours sincerely**

**Place:**

**(Roshith P)**