

CURRICULUM VITAE



SACHIN RANA

PERSONAL DATA:

Contact Information:

7065164195

Permanent Address:

D-359A, MIG, PRATAP
VIHAR GHAZIABAD, 201009

E-Mail:

sachinnews2016@gmail.com

Date of Birth:

August 25, 1998

Father's Name:

DS RANA

Sex : Male

Nationality : India

Marital Status: Single

Languages Known: English,
Punjabi & Hindi

Interests and Hobbies:

Playing volleyball and cricket.

Love cooking, painting,
watching movies, and cycling.

Career Objective:-

To work in a healthy, innovative, and challenging environment extracting the best out of me, conducive to learning and growing at a professional as well as personal level thereby directing my future endeavors as an asset to the organization.

Professional Profile:-

Building an Engineering professional with a Master's Degree in Mechanical Engineering (2nd year continuing) from Punjab Engineering College (Deemed to be University), Chandigarh.

Academic Qualification:-

- Pursued **M.Tech** in Mechanical engineering from Punjab Engineering College (Deemed to be University), Chandigarh.
- Pursued **B.Tech** in Mechanical engineering from Greater Noida Institute of Technology affiliated by AKTU in 2016-2020 with 83.6%.
- Completed **12th (Non-med Science)** from Children's academy with 83.4% in 2015-2016.
- Completed **10th** from Children's academy with 8 CGPA in 2013-2014.

Professional Work Experience and Industrial Training:-

- **OPPO Mobiles India Pvt. Ltd. Feb 21st –Sept 8th, 2022**
Plot No-1, Ecotech-VII, Greater Noida (Kasna), UP
Designation- GET (Graduate Engineering Trainee), **Production department.**
Worked as a Team Leader in the packaging department (Production) arranging and managing the workforce, equipment, and devices.
Maintain quality with production rate, UPH (Unit Per Hour), and minimum defect ratio.
Train the new workforce according to particular work station and SOPs.
- **NTPC EOC NOIDA June 1st - July 15th, 2019**
NTPC provides all the information from power generation to its distribution and the setups required for power generation.
- Workshop attended on "INNOVATIVE DESIGN: IDEATION TO REALIZATION" organized by DESIGN INNOVATIVE CENTER (DIC), IIT ROORKEE.
- Seminar on "FRICTION STIR WELDING" in GNIOT.

Technical Proficiency:-

- Basic Knowledge of Excel and SQL.
- Software Known- AutoCAD, Solid Works, ANSYS, and COMSOL.
- Exposure to Programming Language languages, HTML, and C++.

Achievements and Extracurricular Activities:-

- Qualified GATE examination in Mechanical Engineering in the final year of bachelor's.
- Able to secure a Fee waiver seat for my bachelor's.
- Conference presentation on "A numerical investigation on portable thermal conductivity measuring device" in International Conference on Emerging Trends in Science and Technology
- 1st position in "Inter Department Volleyball Competition" held at PEC.

Working Project:-

➤ **Thesis Project:-**

Development of a portable thermal conductivity measuring device.

This numerical research makes an effort to design a lightweight and reliable native thermal conductivity measuring apparatus, which can be used for precise evaluation of thermal conductivity. A software known for its coupled multiphysics i.e. COMSOL was used to reach the goal with Taguchi L18 mixed array.

➤ **Major Project:-**

Optimizing the process parameters of microwave casting.

This research into microwave casting aims to reduce the prevalence of faults like porosity and uneven solidification, which are common in traditional casting. The factors of interest, including cooling method (IN-SITU vs. EX-SITU), power rating, and susceptor (Stone charcoal, wood charcoal, and silicon carbide), were optimized with the use of the Taguchi L9 orthogonal array, with Al6063 serving as the material of choice.

➤ **Mini project:-**

Design a setup for the “Pin on the disc” experiment for wear testing and compare the different shapes of the pin.

Mechanical and wear properties are important for aerospace and automotive materials. Pin-on-disc testing is used to analyze sliding behavior and wear mechanisms in tribological conditions. We use AutoCAD to design setup and ANSYS simulation software to foretell how a certain tool shape will perform to obtain this.

Strengths:-

- Team Worker and leadership qualities.
- Believe in full-hearted effort & Commitment towards the work.
- Good Reasoning Qualities and Rational person.
- Decision-making ability, Being responsible, to walk an extra mile.

Declaration:-

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

Date:

Sachin Rana