RESUME

Name: Sagar Ravikant Patil
E-mail: sgrpatil60@gmail.com
Mobile No.: 8237414182

Career Objective:

To work in organization which provide me ample of opportunities to enhance my skills and knowledge along with contributing to growth of the organisation.

Career summary:

- A progressive and multi-talented lecturer with extensive practical knowledge having Three-years of experience as Assistant Professor.
- Excellent knowledge of the new technology and new methodologies in Field of Mechanical.
- Good knowledge of subject and have great practical knowledge
- Knowledge about the common job duties of a Asst. Professor and ability to perform them efficiently.

Educational Qualification:

- Bachelor's degree in **Mechanical Engineering** from G. S. Moze of Engineering College from The Pune University with first class in the year 2015.
- Master degree in **Heat Power Engineering** from Govt. College of Engineering, Karad from Shivaji University, Kolhapur with First class with Distinction in the year 2019.

Technical Skills:

- Proficiency in **Catia-V5 and Auto-cad.**
- Basic Knowledge of **ANSYS fluent Software.**
- Able to do **Microsoft Office** tools.

Industrial Training and Internship:

- Completed One Day Industrial Training Program Sunrise Process Equipment's Pvt. Ltd, Boiser.
- Completed 15 days Industrial training certificate course on **Solid Works** and **Creo** design Software.
- 2 Days "Mentors Training program by Bureau of Indian Standards" At Andheri.
- Worked as Project intern for six month at **"BHABHA ATOMIC RESEARCH CENTER''**, Mumbai.
- Worked as Project intern for six month at "**PREMIER SEALS (INDIA) PVT. LTD",** Pune.
- Short term training program on "**Computational Fluid Dynamics and Ansys Software''** at Government college of Engineering Karad.

M.Tech (HPE) Dissertation:

- **Project Name**: **"CFD simulation of flow boiling in heated pipe and sub-channel of Nuclear Reactor.''**
- **Company sponsor: "Bhabha Atomic Research Centre, Mumbai''**
- **Project Description:**
  Nuclear reactor is important primary component of nuclear power plant where all heat transfer process take place. It is important to study overall flow characteristics and analyse the effect of heat transfer on system. CFD simulation is best way to understand all effect and behaviour of flow characters. So, Simulation results are validated with experimental data. Validated model is used to perform 3D subchannel analysis. The results from the subchannel analysis are compared with that of the tube to understand the impact of the shape of the subchannel on the overall flow characteristics.

Published Paper:

- Poster paper presented on **"Effect of Lift force on the prediction of subcooled flow boiling based on CFD methodology"** at National Conference on Critical Heat Flux and Multiphase flow-Dec 2018 held at IIT BHU, Varanasi, India.
- **Sagar Patil**, Ramakant Shrivastava, Mukesh Kumar, "**Comparative study CFD simulation of flow boiling in heated pipe of Nuclear Reactor**", International Conference on Material and Energy (ICME-2k19), Warangal, Telangana, India (Paper Id: Easy Chair – 165).

Paper publication by Guided student

- Ashutosh Bamane, Parth Desak, Vaibhav Dumada, Chirag Gharat, **Sagar Patil "**Design and fabrication of frictionless Power Generation through wheel**",** Journal of thermal and Fluid Science, Volume:5 Issue1,30 June 2024.
- Arfat Fakih, Shwetang Patil, Varun Patil, Harsh Kini, **Sagar Patil** " Design and fabrication of Solar Powered Sea Water Desalination System**",** Journal of thermal and Fluid Science, Volume:5 Issue1,30 June 2024.
- Nagpurwala Ayaan, Shaikh Sufyan, Shaikh Numaan, Prof. Mahesh Salunke, **Prof. Sagar Patil** "STATIC STRESS ANALYSIS OF FRAME AND SHAFT USING CATIAV5" International Research Journal of Modernization in Engineering Technology and Science (IRJMES) Volume:05 , Issue:04,April-2023.
- Md Guddu, Dhiraj Moolya, Tushar Gikward, Jeet Patkar, Chirag Gawai, **Prof. Sagar Patil** "Oil Skimmer with Solar Panel" International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 03,May 2023.

Conference Attended:

- Paper presented on "**Comparative study CFD simulation of flow boiling in heated pipe and Sub-channel of Nuclear Reactor**" in 5th International conference on Mechanical Engineering and Nanomaterials 2025 at St. John college of Engineering and management, Palghar.
- Paper presented on **"Design and fabrication of manual roller Bending machine"** in 5th International conference on Mechanical Engineering and Nanomaterials 2025 at St. John college of Engineering and management, Palghar.

Patent Published:

- IOT based Multipurpose Agricultural Machine for Chilli Farming.

Workshop and STTP Conducted:

- "3 Days National Level Workshop on Design & Validation of Mechanical Components Using CAE Tool" For Mechanical Student.
- "Workshop on I C Engine component and Assembly" for 10th student of SJJC, Palghar

Workshop and STTP Attended:

- STTP on Advances in Manufacturing in the context of industry4.0, 2025 at St. John college of Engineering and management, Palghar.
- One-week Online FDP on " Emerging Technologies For Industry 5.0" Organized by department of Mechanical Engineering, Datta Meghe College of Engineering.
- STTP on "Sustainable Energy Technology for Hydrogen, Solar, Wind and Biomass energy" organized by G H Raisoni College of Engineering, Nagpur.
- "National level one week Faculty development program (online-mode) On Additive manufacturing technology" organized by Sandip University, Nashik
- FDP on "Electric Vehicle" organized by SkillDzire in collaboration with AICTE

Achievements:

- Got Best paper Award for "**Comparative study CFD simulation of flow boiling in heated pipe and Sub-channel of Nuclear Reactor**" in 5th International conference on Mechanical Engineering and Nanomaterials 2025 at St. John college of Engineering and management, Palghar.
- Participation certificate in "**National Conference on Critical Heat Flux and Multiphase flow-Dec 2018**" held at IIT BHU, Varanasi (India).
- Participation certificate in Short term training program on "**Computational Fluid Dynamics and Ansys Software''** at G.C.E. Karad.
- Participate in "**International Winter Academy-2018**" at G.C.E. Karad.

Work Experience:

- GATE qualifies in 2017.
- Participated in 2 Days Training program of BIS
- Working as Asst. Professor, Vishwatmak Om Gurudev College OfEngineering, Aghai from 7th January 2020 to 31st January 2022.
- Working as Asst. Professor, Bharat College of Engineering, Badlapur from 11 July 2022 to 14th June 2023.
- Working as Asst. Professor, St. John College of Engineering and Management, Palghar from 1st July 2023 to till date.

Subject Offered:

- Thermodynamics
- Thermal Engineering
- Turbo Machinery
- Power Plant Engineering
- HVACR
- Dynamics of Machinery
- Kinematics of Machinery

Personal Details:

Name: Sagar Ravikant Patil
Date of birth: 8th Feb 1993
Permanent Address: At: Diwekar Pada, Post: Gowade, Dhuktan, Bahadoli, ,Palghar. 401403
Nationality: Indian.
Marital status: Married
Sex: Male.
Languages known: Marathi, Hindi and English

Declaration:

I hereby declare that all the information furnished here is true and correct to the best of my knowledge and belief.

Date:
Place: Palghar (Sagar Ravikant Patil)