+91 89836 25268

**SAMYAK MANGESH JAIN**

[samyakmangeshjain@gmail.com](mailto:samyakmangeshjain@gmail.com)

MECHANICAL ENGINEER

linkedin.com/in/samyakmangeshjain

**PROFILE SUMMARY**

* As a Systems Engineer, I have successfully developed, analyzed, and tested complex systems to ensure compliance with industry standards and stakeholder requirements.
* My knowledge of CAD software, manufacturing processes, and project management has enabled me to work productively with cross-functional teams to develop creative and affordable solutions.

**EDUCATION**

**Bachelor’s in Engineering, Mechanical Engineering** *August 2019 – May 2023*

Pimpri Chinchwad College of Engineering, Pune

**WORK EXPERIENCE**

Vimal Investments.

- ***Financial Advisiery Employee*** *September 2024-Present*

* Conducted in-depth analysis of Indian stock market trends to support client investment strategies.
* Advised clients on suitable mutual fund investments aligned with their financial goals and risk profiles.
* Provided comprehensive information on health, motor, and life insurance products to facilitate informed policy selection.

Force Motors Ltd.

- ***Graduate Engineer Trainee*** *September 2023-September 2024*

* Contributed to the design of a new component and modify the existing components by conducting research and proposing design solutions under the guidance of Manager.
* Developed a strong understanding of the Force Gurkha 3+D variant, manufacturing processes, and quality control measures.
* Coordination of research and development solutions for production issues Force Gurkha vehicles allowed me to increase assembly line efficiency and improve the overall quality.

International Council of Systems Engineering, India Chapter

- ***Intern*** *February 2023-May 2023*

* Learn the Basics of systems engineering as well as SysML.
* Master the CAMEO system engineering tool.
* Also learn about Aviation (Aircraft braking system).

Team Automatons, PCCOE

- ***Senior Designer and Manufacturing Engineer***  *August 2021 - July 2022*

* Designed and developed Lagori picking and piling mechanism using a parallel gripper for the Robocon 2022 Competition.
* Approach more than 70 companies for collaboration, sponsorships, and technical support.
* Coordinate the whole competition journey for 40 teammates, including obtaining permissions, making reservations for travel, food, and other amenities, managing the competition, etc.

- ***Junior Designer and Manufacturing Engineer*** *October 2019 - July 2021*

* Contributed to the design and development of robotic systems, including the creation of 3D models, prototypes, and final products.
* Conducted extensive research and analysis to ensure that the robot arm could perform tasks safely and effectively in various hazardous environments for the project of ‘VR Roboarm’.

- ***Trainee*** *August 2019 - October 2019*

* Gained knowledge of 3D modelling software such as SolidWorks and Fusion 360
* Gained valuable hands-on experience working as a part of the mechanical team, where I learned the basic manufacturing and machining processes.
* Acquired a comprehensive understanding of the fundamental components and terminologies used in robotics.

**PROJECTS**

Force Gurkha 2400 WB 3+D variant*September 2023-September 2024*

*Force Motors Ltd.*

* Understand the company's product, work culture, etc and adopt it.
* resolve the various build-up problems that arise in production vehicles.
* Develop various parts as per the new BS VI.II guidelines.

Aircraft Brake Management System (BMS)*February 2023-May 2023*

*International Council of Systems Engineering, India Chapter.*

* Developing a complete Aircraft brake management system model as per the stakeholders need.
* Designing the different models of different scenarios of aircraft such as the stakeholder’s requirement,

Autonomous Mobile Robot (AMR)*August 2023-April 2023*

*Final Year Project, PCCOE, Pune.*

* Designing and developing a robot which is used in the office to share documents among 5 stakeholders.
* Implementing Robot Operating System (ROS) to make robot work autonomously using Lidar sensor.
* Build independent swerve wheel drive for fast and accurate navigation.

Parallel Gripper*September 2021-July 2022*

*Robocon 2022, Team Automatons, PCCOE, Pune.*

* Build a Parallel gripping mechanism to pile the 5 lagori’s of 1.5 kg weight up to 1200 mm height.
* Developed the piling mechanism to pile the lagori stack.

**EXTRA CURRICULAR ACTIVITIES**

Team MESA, PCCOE

- ***Planning Analyst*** *August 2021 - August 2022*

* Conducted research and evaluate data to aid in the creation and execution of various department-level activities.
* Conducted assessments and gap analyses to pinpoint areas for improvement in co-working groups to boost the efficiency of the team.

- ***Higher Studies Head*** *August 2020 - August 2021*

* Arrange different webinars for mechanical students to pursue higher education.
* Provide study materials to the students preparing for higher education.

Training and Placement Cell, PCCOE

- ***Training and Placement Coordinator of mechanical department*** *January 2021 - August 2022*

* Introduce a comprehensive training and placement program for mechanical students.
* Conduct assessment tests, provide study materials, organize mock placement drive for the TE and BE students for getting placed on their dream companies.

**SKILLS**

Technical Skills: Design, Catia V5, SolidWorks, Fusion 360, Magic Grid, Cameo, MBSE, SysML, etc.

**HOBBIES:** Photography, Miniature Things, Exploration, Reading, Cooking, etc.