Arjun Nair

Graduate Mechanical Engineer

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CAREER OBJECTIVE

Mechanical engineering graduate with six weeks of industrial training in a pump assembly plant and a final-year project on a pedal-operated water filter. Trained in SolidWorks part and assembly modelling and basic static analysis in ANSYS. Seeking a graduate engineer trainee role in design or production.

EDUCATION

BE Mechanical Engineering

Sahyadri College of Engineering, Pune | 2022 - 2026 | CGPA 7.9 / 10

- Relevant courses: Machine Design, Thermodynamics, Manufacturing Processes, Fluid Mechanics, Engineering Metrology.

Higher Secondary (Science)

Deccan Junior College, Pune | 2022 | 82%

INDUSTRIAL TRAINING

Trainee, Assembly Shop

Indus Flow Pumps Pvt Ltd, Pune | Jun 2025 - Jul 2025

- Observed and recorded cycle times for 3 assembly stations and reported an unbalanced station to the line supervisor.
- Inspected 120 impeller shafts with a vernier caliper and micrometer against drawing tolerances.
- Prepared a one-page 5S checklist that the shop adopted for its weekly audit.

PROJECTS

Pedal-Operated Water Filtration Unit (final year)

Team of 4 | Aug 2025 - Apr 2026

- Modelled the frame, chain drive and pump mounting in SolidWorks and produced 14 manufacturing drawings.
- Ran a static stress check on the frame in ANSYS and raised the factor of safety from 1.6 to 2.4 by changing one tube section.
- Built and tested the prototype, which delivered about 9 litres per minute at a comfortable pedalling speed.

Design of a Two-Stage Spur Gearbox (mini project)

Individual | 2025

- Sized gears, shafts and bearings by hand calculation for a 2 kW input and checked the results against a spreadsheet model.

TECHNICAL SKILLS

CAD and analysis: SolidWorks (parts, assemblies, drawings), AutoCAD 2D, ANSYS static structural (basic)

Workshop: lathe, milling and drilling operations, arc welding (college workshop level)

Other: GD&T basics, MS Excel, MATLAB (basic scripts)

CERTIFICATIONS AND ACTIVITIES

SolidWorks associate-level course certificate, 2025

Member, college SAE collegiate club; worked on the braking sub-team for one season