

Achyut Anant Deshpande

Contact Details

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Educational Background

- **DKTE'S Textile & Engineering Institute, Ichalkaranji**
B. TECH Final Year Mechanical Year: - 2022-Pursuing
- **Vidya Mandir Prashala and Junior College, Miraj**
HSC: - 68.00% Year: - 2022
- **Ideal English School, Miraj**
SSC: - 71.40% Year: - 2020

Internship Experience

- **Rotadyne Precision Engineering Private Limited.**
Position: -Intern in the Quality Control Department. (11/2024)
- **Mahabal Metals Private Limited.**
Position: -Intern in the Machining Department. (06/2024)

Projects

- **Thermochemical Energy Storage (TCES) System:** - A research project focused on thermochemical energy storage by investigating various salt hydrates, such as SrBr_2 and SrCl_2 . The project involves designing and testing a reactor to see how effectively it stores large amounts of energy in a compact system with minimal loss.
- **Air-Based Rain Protection Helmet:** - The Umbrella Air Helmet is a conceptual project that Features an umbrella made of air dome-shaped structures around a helmet, **Applied for Design Patent** (Application No. 454613-001).
- **Magnetic Damper:** - A magnetic damper consists of a piston-cylinder Arrangement that utilizes two opposing magnets to effectively dampen vibrations.
- **Customizable LCV:** -The Customizable LCV is a project that allows modification of the carriage of small light commercial vehicles (LCVs), enabling adaptability for different uses.
- **Water Surface Waste Collector:** - Water Surface Waste Collector Developed a stationary floating device, inspired By the Seabin concept, to collect floating waste from small stagnant water Bodies. Focused on low-cost materials and passive operation for easy use in Ponds and local lakes.

Certificate/Achievements

- Certified in **Six Sigma White Belt**, with a solid understanding of continuous improvement tools, waste-reduction concepts, and basic quality management techniques.
- **Certified Ready Engineer** – Completed Tata Technologies Ready Engineer Program in Advance Automobile Design, Analysis & Manufacturing.
- CSWA-certified in **SolidWorks by Dassault Systèmes**, demonstrating proficiency in 3D CAD, design analysis, and engineering drawings.
- **NPTEL Certification** – Advanced Machining Processes.
- Third Prize in “**Mech-Dart**” [Tech-Symposium 2K24] organized by DKTE Society’s Engineering Institute.
- Participated in **AAKRUTI Global 2024**, a global SOLIDWORKS design contest on Sustainability and innovation.
- Participation certificate for **IET Karmaveer Expo 2024**, Project Exhibition.

Technical Skills

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| • AutoCAD 2D & 3D. | • Microsoft Office (MS Office). |
| • Fusion 360 - 3D modeling. | • C programming. |
| • SolidWorks – 3D modeling, Rendering. | • Python. |
| • Catia – 2D modeling. | • Canva. |
| • Ansys – Workbench. | • Photoshop. |

Extra-Curricular

- | | |
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| • MESA committee Co-Ordinator. | • Member of SAE India. |
| • Member of IME. | • Member of E-cell DKTE. |