

3D PARADISE TECHNOLOGIES LLP

Mechanical Department | Additive Manufacturing

22nd August 2026

TO WHOMSOEVER IT MAY CONCERN

Subject: Recommendation and Appreciation Letter for Arnav Kumar Lal

I am writing this letter to formally recognize and appreciate the performance of **Arnav Kumar Lal** during their 4 - month internship at 3D Paradise from 1 / 05 / 2026 to 31 / 08 / 2026, where they served as a 3D Printing & Mechanical Design Engineering Intern.

Throughout their tenure with us, Arnav demonstrated remarkable competence, initiative, and enthusiasm for 3D printing technologies and rapid prototyping. They were actively involved in several critical workflows, including CAD modeling, slicing software optimization (using Cura/OrcaSlicer), 3D printer calibration and maintenance, post-processing of fabricated parts, and quality assurance testing.

Key Highlights of his Contributions at 3D Paradise:

- **Product Design & Development:** Led ideation through delivery across defence, medical, and manufacturing client projects, applying SolidWorks and Fusion 360 for reverse engineering and design, and Simplify3D and OrcaSlicer for production-grade slicing and print optimisation.
- **Automated Slicing Pipeline:** Developed a Python-based batch STL processing tool using Trimesh, Openpyxl, and OrcaSlicer CLI to automate weight and volume calculations across multiple files simultaneously, reducing manual reporting overhead and improving production planning accuracy.
- **Design for Additive Manufacturing (DfAM):** Continuously iterated on infill profiles, support configurations, and material variants across FDM platforms to meet client-specified tolerances and structural requirements.
- **Quality Assurance & Post-Processing:** Performed rigorous surface finishing and dimensional validation on fabricated components, ensuring final deliverables met client expectations.

We are sincerely grateful for Arnav's hard work and contributions during their time at 3D Paradise. I am confident that the skills, discipline, and practical experience they developed here will make them a valuable asset to any forward-thinking organization.

I wholeheartedly recommend Arnav Kumar Lal for future professional engineering opportunities or higher educational pursuits. Please feel free to reach out to us if you require any further information.

Sincerely,

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