

Charitha Priyadarshana Paranawithana*

I'm a passionate and results-driven Mechanical Engineer with over nine years of experience in engineering design, product development, and maintenance management. I specialize in 3D mechanical design, machine development, and engineering project execution – both in large-scale manufacturing environments and as a global freelancer.

My academic background includes a B.Sc. (Hons) in Mechanical and Manufacturing Engineering, accredited under the Washington Accord, and I am currently pursuing an MBA in Project Management. I am also a Certified SolidWorks Professional, with credentials covering mechanical design, drawing tools, sheet metal, mold, and weldment design.

My core strength lies in **design engineering and CAD-based development**. I have led numerous new product development (NPD) projects from concept to implementation. My expertise includes creating complex 3D CAD models, assemblies, detailed technical drawings, and performing Finite Element Analysis (FEA) for product validation.

As a freelancer, I have worked with hundreds of international clients, delivering design solutions that are functional, manufacturable, and visually optimized. Consistent 5-star ratings on over one thousand projects are a reflection of my dedication to quality, clear communication, and on-time delivery.

In my corporate career, I've managed cross-functional engineering teams and overseen large-scale projects involving machinery installation, equipment upgrades, process optimization, and cost reduction.

I've led initiatives in DMAIC (a core LEAN SIX SEMA component) that improved changeover efficiency by 20%, localized spare part development to reduce procurement costs, and implemented engineering standards like TPM, FMEA, Kaizen, RCA, and 5 WHY analysis.

If you're looking for a mechanical engineer who blends design innovation with industrial experience, I'd welcome the opportunity to collaborate with you.

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