AADITYA RADHAKRISHNAN

Mechanical Design Engineer | CAD, Manufacturing & Product Development

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PROFILE

I design hardware that is built to be manufactured, and I have built it with my own hands. Connects CAD design intent with shop-floor and vendor reality, from concept to launch.

ENGINEERING SKILLS

CAD: SolidWorks, CATIA, Siemens NX, AutoCAD, Inventor, Fusion 360.
Surface modeling, sheet metal, large assemblies. Simulation: ANSYS, Abaqus, MathCAD.
Basic MATLAB. GD&T (ASME Y14.5), tolerance stack-ups, DFM/DFA.
Hands-on cutting, bending, welding; vendor management; multi-level BOMs; ECO/CO.

EXPERIENCE

Project Associate | ThinkClock Battery Labs, Bengaluru | Feb 2026 - Present

Concept-to-launch product development, sheet-metal and surface design, assemblies, GD&T, BOMs, change management and vendor sign-off. Personally fabricated enclosures.

Field Applications Engineer | ThinkClock, Sunbury UK | Jul 2025 - Jan 2026

On-site EV battery diagnostics, client training, live demos and new account wins.

Academic Peer Mentor | Kingston University | Oct 2022 - Sep 2023

Taught Engineering Mathematics and mechanical subjects; workshops for 100+ students.

Engineering Intern | Aries Marine, Sharjah | 2020

3D CAD models, technical drawings and bills of materials.

Engineering Intern | Indigo Paints, Kochi | 2019

Lean Six Sigma and finite element analysis on manufacturing equipment.

SELECTED PROJECTS

BatteryScope-C | Automated and manual variants

End-to-end development and launch; SolidWorks/CATIA, fabrication and validation.

DeusCell | Piston-actuated modular reconfigurable robot

Locomotion concept, actuation algorithm and hardware design. MBCETAA Best Project Award; published by Springer, Singapore, November 2022.

MSc Dissertation | Structural adhesive for space applications | 2023

ANSYS/Abaqus study of Hysol EA 9360 / Aluminium 7075 joints; MathCAD validation.

EDUCATION

MBA Project Management | Jain University Online | 2026
MSc Advanced Product Design Engineering & Manufacturing | Kingston UK | 2022-23
Merit. BTech Mechanical Engineering | MBCET | 2017-21 | 8.77 CGPA

CERTIFICATIONS

SolidWorks CSWP: Mechanical, Sustainable Design, Additive Manufacturing; CSWA.
Lean Six Sigma Green Belt. IMI Level 2 Electric/Hybrid Vehicle Maintenance.