

ADITYA RAO

Mechanical Design Engineer

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PROFILE

Mechanical design engineer with six years in rail and industrial equipment. Designs components and assemblies in SolidWorks, runs FEA and test programmes, and takes designs through to manufacture with suppliers. Working towards Chartered Engineer registration with the IMechE. Looking for a senior design engineer role.

EXPERIENCE

Mechanical Design Engineer, *Trentside Rail Systems, Derby* 2022–present

- Design brackets, enclosures and mechanisms for train interiors in SolidWorks, from concept to release.
- Run FEA and fatigue checks and plan physical tests with the test lab; redesigned a seat frame to cut its weight by 14%.
- Produce drawings with GD&T and work with three suppliers on manufacturability and cost.
- Lead design reviews for a team of four engineers and technicians on a new interior project.

Graduate Engineer, *Midland Conveyor Systems, Burton upon Trent* 2020–2022

- Rotated through design, test and site installation; designed guarding for a packaging line.

EDUCATION AND REGISTRATION

MEng (Hons) Mechanical Engineering, 2:1, *Trentvale University* 2016–2020

IMechE member, working towards CEng 2022–present

SKILLS

- 3D CAD and detailed drawings (SolidWorks, GD&T)
- FEA and fatigue analysis
- Test planning and data analysis
- Design for manufacture