# Vignesh Subramanian

Graduate Engineer Trainee (Mechanical)

vignesh.subramanian@example.com +91 96XXX XXX25 Hosur, Tamil Nadu
linkedin.com/in/vignesh-subramanian-example

## Personal statement

B.E. Mechanical Engineering graduate (2026, 7.9 CGPA) with a two-month quality internship at an auto-component foundry and three years on the college BAJA team. Skilled in SolidWorks, AutoCAD, GD&T basics and root cause analysis, and looking for a graduate engineer trainee role in production, quality or design.

## Education

**B.E. in Mechanical Engineering** · Krishnagiri Institute of Engineering and Technology, Krishnagiri, Tamil Nadu 2022 – 2026
Grade: 7.9 CGPA

**Class XII (Tamil Nadu State Board) in Physics, Chemistry and Mathematics** · Thalli Road Matriculation Higher Secondary School, Hosur, Tamil Nadu 2021 – 2022
Grade: 88%

**Class X (Tamil Nadu State Board) in Secondary School** · Thalli Road Matriculation Higher Secondary School, Hosur, Tamil Nadu 2019 – 2020
Grade: 91%

## Projects

**BAJA All-Terrain Vehicle** · Suspension and steering lead Aug 2023 – Feb 2026

College team of 25 students designing and building an off-road vehicle for a national student competition.

- Designed the double-wishbone front suspension in SolidWorks and checked arm stresses with ANSYS static analysis.
- Cut suspension weight by 3.4 kg through tube-size optimisation; the vehicle cleared technical inspection on the first attempt.

**Drill Jig for a Gearbox Cover** · Final-year project (team of 4) Aug 2025 – Mar 2026

Industry-sponsored project for a local machine shop.

- Designed a drill jig in SolidWorks with GD&T callouts that cut marking and drilling time per part from 9 to 4 minutes.

## Skills

SolidWorks · AutoCAD · ANSYS (static analysis) · GD&T basics · Measuring instruments and CMM reports · 7 QC tools · MS Excel · Manufacturing processes

## Work experience

**Quality Intern** · Hosur Precision Castings Pvt Ltd, Hosur, Tamil Nadu Jun 2025 – Jul 2025

- Inspected 1,200+ aluminium housing castings using bore gauges, go/no-go gauges and CMM reports against customer drawings.
- Built a Pareto chart of 3 months of rejection data showing that porosity caused 46% of rejections on one line.
- Supported a why-why and fishbone study with the process engineer that cut porosity rejections from 4.1% to 2.6% within a month.
- Updated 15 control plans and inspection checklists in the plant document system.

## Certifications

**Certified SOLIDWORKS Associate (CSWA)** · Dassault Systemes Jan 2025

**NPTEL: Fundamentals of Manufacturing Processes** · NPTEL Oct 2024

## Core skills

- Root cause analysis
- Problem solving
- Shop-floor communication

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- Team leadership
- Documentation

**Languages**

English · Professional | Tamil · Native | Kannada · Conversational | Hindi · Conversational