



# Praveen Devaraj

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## Technical Lead Engineer

Mechanical Design Engineer with more than 8.5 years of experience in Product Design & Development and worked with different product lines like Oil & Gas-Energy sector, Semiconductor Manufacturers and Medical Devices. Experienced in handling cross functional team members in NPD projects and had hands-on experience in Prototyping and Functional testing. Actively performing team management activities with good leadership qualities and consistently involved in learning new things to take up more challenging tasks.

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Chennai, India

## Skills

NPD

DFM & DFA

VA/VE

DFMEA

Solidworks

UG/NX

Creo

Casting Parts

Plastic Part Design

Sheet Metal Design

Engg. Drawing

GD&T

Design Calculations

Tolerance Stack up

ECR & ECN

BOM

3D Printing

Six Sigma

Prototyping & Testing

Teamcenter

SAP

## Education

**B.E., Automobile Engg.**

Rajalakshmi Engg. College  
Anna University (2009-13)

**Univ. Gold Medalist**

Project: *CFD Simulation of CI  
Engine Combustion Chamber*

## Languages

**English**

Full professional Proficiency

**Tamil**

Native Proficiency

## Other Details

Nationality: **Indian**

Marital Status: **Unmarried**

## Work Experience

**Technical Lead Engineer** (Jun 2021 – Present)

**HCL Technologies Pvt. Ltd. – ERS**

Sholinganallur – Chennai

Client: **Becton Dickinson**

Product line: *Medical Devices*

- Design and development of Semiconductor based *Targeted Temperature Management* Device
- VA/VE development of compact Urine output monitoring system
- Plastic part design and Sheet metal design
- Leading a team of 4 members to perform ECR & ECN related activities with utmost quality and on-time delivery

**Senior Design Engineer** (Jan 2019 – Jun 2021)

**Triad Software Pvt. Ltd. (CAD/CAM-E)**

Royapettah – Chennai

Client: **ASML**

Product line: *Semiconductor Devices*

- Development of *EXE 5000 Reticle Stage – Base Frame* module
- Casting part design, Plastic part design, Sheet metal Design and Machining part design
- Worked as MDEV engineer handling ECO & ECN activities, DIA BOM creation and handled CCB & CDR meetings
- Performed Outgassing calculations and Tolerance stack-up analysis
- Created Technical Product Document (TPDs), Model Based Definition (MBD) with GD&T
- Worked as EDEV engineer handling Cable Routing and Box assemblies
- Lead a team of 4 members to perform ECR & ECN related activities with utmost quality and on-time delivery
- Product release/revision activities in Teamcenter and SAP
- Lead an NPD project with team of 5 members (cross functional team) to demonstrate our mechanical design capabilities with IoT
- Worked as a Design Engineer in another NPD project - Automated Cookware Product
- Experienced in design for 3D printing, Prototype and Testing

**Design Engineer** (Nov 2013 – Jan 2019)

**TATA Consultancy Services Pvt. Ltd. – EIS**

Siruseri – Chennai

Client: **Baker Hughes**

Product line: *Oil & Gas Energy Sector*

- Design and development of *Packers, Flow Controls* and *Liner Hanger* products
- Worked in *Harpoon Cut and Pull Spear* tool in Well Completion Systems
- Casting part design, Sheet metal Design and Machining part design
- Functional layouts and Engineering drawing creation with GD&T
- Design calculations, Tolerance Stack-up analysis, and Wear Inspection
- Product release/revision workflow in Teamcenter and SAP
- Lead a team of 3 members to perform Docquests, ECR & ECN related activities with utmost quality and on-time delivery

## Certificates/Honors & Awards

- Lean Six Sigma Green Belt Certification – TCS Internal (Annual saving of 2371\$)
- Basics of Geometric Dimensioning and Tolerancing Certification
- Basics of Solidworks – Simtek, Basics of Catia – Dassault Systems
- Implant Training on Automotive Fuel Injection Pumps – Bosch
- Implant Training on Exhaust Systems – Tenneco Automotive Pvt. Ltd.
- LIREL Award for exhibiting TCS core values