

**Akshay R. Chaudhari**  
**(Sr. Engineer)**

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**Objective:** Application for the position of Automotive Trims Design Engineer.

### **Professional Summary:**

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- **3.6 Years of Industrial experience in Automotive Plastic Interior Trims Design in CATIA V5.**
- Good knowledge about Plastic Product Design with Tooling considerations, Injection Molding & plastic defects.
- Knowledge of Air vent positioning & directionability to meet CFD requirements.
- CAS/Class A Surface feasibility & making different proposals for Design & perceived quality Improvements.
- Good understandings of Interior fittings & Head Impact regulations requirements.
- SOR documents preparation for Investment Cost/Budget approval
- Designing Plastic Parts with proper consideration of mounting feature, Sliders & Lifters for tooling.
- Knowledge of CAE Target & Requirements
- Providing solution for undercut and plastic defect like sink mark, warpage etc.
- Gap and Flush analysis as per DTS requirements.
- Discussions & Reviews with Supplier to meet project requirements & Timeline.
- Proficiency in working with CatiaV5 (Generative Shape Design, Part Modeling) and Team center.

### **Professional Highlights:**

**Project:** S220, S230 IP

**6 Sep.21 – Present**

**Project Parts:** Airvent, CTR Fascia Upper, Fascia Lower, Top MNTG Cover

**CAD Software:** CATIA V5

**Company:** Mahindra & Mahindra LTD.

### **Roles and Responsibilities:**

- Done positioning of IP CTR Air vent & directionability.
- CAS/Class A surface feasibility (Graining, Gap & Flush, Surface Quality).
- Checking of Interior Fittings regulatory requirements.
- Prepared various engineering proposals as per requirement.
- Done Air vent Articulations to meet CFD requirements.
- Part manufacturing & Tooling feasibility.
- Analysis of CAE results & modifications for Improvements.

- Provided solutions for plastic defects & Undercuts (Weak steel, Slider & Lifters).
- Team center activities.
- Daily Interaction with supplier to meet the project requirements & Timeline.
- Checking final data with environments & Releasing in Team center.

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**Project:** F38 HONDA

**14 June 21 – 3 Sep.21**

**Client:** Honda

**Project Parts:** Front Seat RH & LH.

**CAD Software:** CATIA V5

**Company:** L&T Technology Services ( **Contract Basis**)

**Roles and Responsibilities:**

- Standard tree structure creation
- Part Attributes addition.
- Checking of gap and clash with environment parts.
- Document preparations for environment issues .

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**Project:** In-house Projects

**2 Mar.20 – 24 May 21**

**Project Parts:** IP Deco Bezel, End Cap.

**CAD Software:** CATIA V5

**Company:** Auto one Engineering Services PVT LTD

**Roles and Responsibilities:**

- Done style analysis and feasibility study with environment parts.
- Making of close volume from Style A surface maintaining the uniform wall thickness.
- Creation of fully parametric 3D modeling using surfacing and part modeling.
- Generating B surface and adding B-side features for fixation of part as per requirement.
- Locating the features like clip tower and dog house by considering plastic defects.
- Created sink mark traps considering the root thickness.
- Provided solutions for undercut.
- Making of interfaces for the features on environment parts.
- Creation of parting lines.

**Program name:** X4 – DP

**Client:** DEP

**Project Part:** Map pocket, Lower Door Trim, Waistrail.

**CAD Software:** - CATIA V5

**Roles and Responsibilities:**

- Draft and curvature analysis of style for given draft angle.
- Creation of closed volume using section.
- Making fully 3D parametric part with maintaining proper part history.
- Creation of features like welding cylinder, snap, dog house, clip tower with slider & lifter as per feasibility.
- Creation of power copy.
- Analysis of part for tooling and manufacturing feasibility.
- Elimination of plastic defects like sink mark, warp age.
- Adding fixation considering RPS given by customer.
- Making the interfaces for the feature like welding cylinder, clip tower, screw boss and locator on environment part.
- Creation of parting line.

**Strength:**

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- Good in tools like CATIA V5, Team center & UG-NX.
- Good Presentations Skills.
- Good Team player.

**Academics:**

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- B.E Mechanical from RMD Sinhgad Technical Institute Campus , Warje, PUNE in 2018.
- Diploma in Mechanical from Bhujbal Knowledge City, Nasik in 2015.
- SSC from Nutan Highschool, Dondaicha in 2012.