**Ankit Chuadhari**

Akron, OH.

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ankitkchaudhary@gmail.com

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| **Professional Summary:** |

* **5+** of experience in the Mechanical Industry.
* Good command on CAD tools such as **CATIA V5, Solid Works** and **AutoCAD**.
* Hands on experience working on Solid Modelling, Surface modelling and Drafting, Knowledge-ware, Automation etc. in **CATIA-V5**.
* Experience in product design and product development.
* Experience on dealing with Product Development Management (PDM) tool **SmarTeam.**
* Strong programming and office software skills.
* 3 years of project management and project coordination experience.

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| **Technical Skills:** |

**Mechanical Tools**: CATIA V5, AutoCAD, Pro/Enginer, Solidworks, ANSYS, Arena, Inventor.

**Programming**: VBA for CATIA V5 and MS Office, C/C#, MATLAB, Linux scripting.

**Operating Systems**: Windows 7/VISTA/XP, LINUX.

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| **Work Experience:** |

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| **Good Year Tire & Rubber Co. ,Akron, OH.**  Mechanical Engineer/Onsite-Coordinator | **April ’12- Present** |

**Responsibilities:**

* Dealing with design development and Analysis of Tire constructions according to the TRA standards.
* Utilizing **CATIA V5** parametric modeling and drafting concept to generate Tire models.
* Preparing cured tire cross section models and drawings in **CATIA V5** with use of **GSD, PKT, KWE, Part-product design** etc.
* Testing tires for durability, rolling resistance, thermal and pressure distribution, stress/strain analysis, Footprint shapes from **Finite Element Analysis** tools DEW(Design Evaluation Workbench), QMESH, PATRAN, BLOT, Ensight, Paraview etc.
* Providing Technical Support to Various Tire Manufacturing Facilities.
* Using **PDM** Software **SmarTeam** and **SAP** tools for data management.
* Performing industrialization process to develop other sizes derived from a master tire size.
* Coordinating project activities to ensure quality and on time delivery.

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| **B&B Sheet Metal, NYC, NY.**  Mechanical Engineer (Intern) | **May ‘11 -Aug ‘11** |

**Responsibilities:**

* Designed water proofing solutions and ventilation system for the buildings such as roof flashing system, gutter system, skylights, metal roof, wall panels etc.
* Performed the designing and drafting work for the different systems as per the provided architectural drawing details and **SMACNA/SheetMetal** guidelines.
* Proficiently utilized **AutoCAD LT 2010** for drawings, Assembly, bill of materials etc.
* Evaluated the project cost and prepared quotations.
* Learned about the advanced sheet metal fabrication manufacturing and machines such as water jet glass cutting, press brakes, gutter/downspouts forming, etc.

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| **Chaudhary Designers and Fabricators, India**  Design Engineer | **Jan ‘08 - Dec ‘09** |

**Responsibilities:**

* Led design and cost reduction activities for “Low Cost Windmill for SaltSpan workers” which fetched national award.
* Responsible for Product Design, Project Management and
* Successfully lead the CAD (Design/Drafting) team and Production Contractors.
* Designed **pressure vessels**, heat exchangers (mainly boiler, condensers, liquid to liquid etc), storage tanks, chemical processing equipments as per client’s requirements.
* Implemented **ASME section VIII** and Indian Standards guidelines for design and manufacturing of above products.
* Designed piping systems with valves, pumps, compressor etc.
* Utilized **SolidWorks 2006** for modeling and FEM analysis such as **stress/strain analysis**, thermal and vibration analysis etc.
* Performed Design for Assembly and manufacturability (DFMA) feasibility study.
* Proficiently used AutoCAD 2006 for fabrication drawing with welding symbols, bill of materials and **GD&T** details as per **ASME Y14.5.**

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| **Urja Engineers, India**  Mechanical Engineer | **Jan ‘06 – Dec ‘07** |

**Responsibilities:**

* Responsible for production management and machine maintenance.
* Efficiently carried out Sheet and Section Bending Machine design and production. Designed gear assemblies, reciprocating mechanism, power screws etc.
* As a production supervisor, responsible for welding(TIG. Submerged Arc etc.), machined parts, paint inspection.
* Handled supply chain by coordinating suppliers, vendors and customers.
* Used AutoCAD for drawing preparation.

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| **Education :** |

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| Masters of Engineering - Mechanical Engineering |  | **Dec ‘11** |
| **Stevens Institute of Technology, NJ.** |  |  |
| GPA- 4.0/4.0 |  |  |
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| Bachelors of Engineering - Mechanical Engineering |  | **June ‘09** |
| **Gujarat University** |  |  |
| GPA- 3.43/4.0 |  |  |

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| **Academic Projects :** |

**Design Optimization of Solar Water Heating System**

* Performed optimization with use of excel solver tool on existing solar water heating (SWH) system to maximize the efficiency of the system, Modeled and simulated the system with use of **Pro/Engineer** and **ANSYS**.
* Achieved 8% improvement in efficiency with no further increment in cost of the SWH.

**Heat Transfer Enhancement in Fin-Tube Heat Exchanger with Use of Delta Winglets**

* Modeled and analyzed effect of delta winglet vortex generator in fin tube heat exchanger with help of Solidworks Flow simulation.
* Obtained 20% enhancement in heat transfer coefficient and presented savings up to 9% over HE without winglets (conventional).