Ashishkumar Patel

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Mechanical Design Engineer

Solutions-focused and resourceful engineer with hands-on experience producing clear and accurate mechanical designs in line with project specification, budget constraints, and associated standards.

AREAS OF EXPERTISE

- Adept at designing feasibility and testing methods, estimating product designs costs, supporting conceptual designs development, and streamlining procurement, fabrication, and installation process.
- Instrumental in designing products using CAD, developing and building prototypes, evaluating testing data, and altering designs to ensure safety, performance and efficiency.
- Skilled in producing 3D models for design reviews, formulating end-user documentation, managing complex projects and evaluating cost, analyzing materials reliability, and purchasing components while incorporating them into designs.
- Quality focused and highly compliant oriented Mechanical Engineering Professional with experience in Automotive-Manufacturing- Process & Process Feasibility, Tooling, Facilities and Lead for Mass manufacturing Production system with Quality Concepts and Management Practices.
- Exceptional interpersonal and communication skills, able to communicate highly complex technical information to non-technical users and stakeholders on all levels.

TECHNICAL PROFICIENCIES

Tools/Software:	AutoCAD, SolidWorks, Autodesk Fusion 360, PTC Creo Parametric 2.0, MATLAB, Microsoft Office, Mastercam, ESPRIT, PLCs software (AB, Siemens)
Machining:	Mill, Lathe, CNC/VMC, hand tools, sheet metal fabrication, CMM

Professional Experience

RPS Industries INC. Canada

Mechanical Engineer- Intern (Sep 2018 – May 2018)

Technical scope: MRP system, CAD drawing, FEA, Non-Conforming Report (NCR), troubleshooting & machines installation.

Delivered exceptional services in formulating and analyzing customer design proposals, specifications and requirements for die products. Streamlined process and assembly line, verified CAD drawing mathematically, and created technical reports while adhering to all engineering standards and principles. Tracked complete history of repair maintenance work while estimating time and materials required to complete work order for injection mold machine. Maintained company critical devices by troubleshooting and repairing machines and installing/modifying systems .Hands on experience on allen bradely PLCs.

Sonal Machine Tools. India

Design Engineer (July 2016 – July 2017)

Technical scope: CNC/VMC, Mastercam, jigs, fixtures, TIG/MIG/Arc welding, pneumatic and hydraulic systems, TIG welding, Manufacturing process.

Managed comprehensive engineering operations, including deign development, parts programming, and project documentation. Developed parts programming for CNC/VMC in Mastercam while designing jigs and fixtures accordingly. Formulated technical documentation for part according to project requirements. Assembled component by submerged arc welding resistance such as flash butt and spot welding.

Key Achievements:

- Spearheaded overall operating workshop effectively, while adhering to all organizational standards and procedures.
- Recognized as a thorough professional and consistently received complementary remarks from seniors.

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Alor Corporation. India

Jr. Design Engineer (May 2015 – June 2016)

Technical scope: 3D modelling, CAD, SolidWorks, solar panel attachments, manufacturing, fabrication, and fixturing.

Delivered technical leadership in designing and drafting 3D CAD models of die parts and assembling using SolidWorks and AutoCAD. Crafted parts layouts and assembly while complying with GD & T drafting standards. Conducted extensive analysis for research process and project resources, involving materials required and total cost. Met design and client expectations by validating data integrity and accuracy. Provided high-level designs by employing solid works as well as designed solar panel attachments.

Other Experience:

Tool Crib Attendant (2017 – 2018), Seneca College of Applied Arts and Technology, Toronto, CA

Education & Credentials

Seneca College of Applied Arts and Technology, Toronto, Canada
PG Diploma in Mechanical Engineering, Tool and Die Design (2017-19)

Gujarat Technological University (GTU), India
Bachelor of Engineering in Mechanical Engineering (2011-15)
Coursework: CIM, Mechanical System Control, Mechanical Design/Drafting, Thermal System Optimization, Manufacturing Process, Operation Research,

— Certifications —

AutoCAD ~ Solidworks Associate ~ MasterCAM ~ WHIMIS ~ Health and Safety ~ Forklift — Propane Exchange

— Professional Development —

Workshop for Auto Factory on Design Simulation & Analysis of Commercial Cars Assembling/De-assembling and (2014)
Selected for Auto Factory 2014 Competition held at PARUL College, India.

— Key Projects —

Design/analysis of customized Industrial crane hook and stress/strain calculation by ANSYS, Laxmi Transmission, India
Analyze and reduce defects in Non-Ferrous Casting by industrial CT Scanning, Metal Products, India

— Community Leadership —

Volunteer, involved in motivational activities in collaboration with librarian to inspired newcomer for volunteer work for their betterment.