

Kritesh Patel

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SUMMARY

Detail oriented and quality driven Mechanical Design Engineer with extensive knowledge and experience relating to the design and development of the parts & products. Six Sigma - Green Belt certified. Effectively communicates design and development concepts to team and original equipment manufacturer (OEM) through written and verbal means as well as presentations. Proven ability to support/lead projects from concept through production under demanding time constraints. Fast learner with creative and analytical abilities.

EXPERIENCE

TRW Automotive, Farmington Hills, Michigan (2004 - 2008)

Product Engineer (Mechanical)

- Developed work with assembling modules, testing and analysis, integration into different vehicles, data collection, and Instron testing.
- Validated product testing of vision based Lane Departure Warning System (LDWS) from concept to final product validation.
- Possess an understanding of Injection molding, Thixomolding, SLA parts, FDM parts.
- Performed geometric dimensioning and tolerancing (GD&T) stacks and analysis of the LDWS parts.
- Supported part analysis including FEA of air-flow, heat dissipation, thermal analysis, and part contamination analysis.
- Designed and reviewed parts, assembly drawings, and fixtures utilizing Unigraphics/NX3, and hand sketch drawings).
- Knowledge of thermal materials, and VHB tapes.
- Experience with lens filters, speed of the lens, and AR coatings.
- **International Experience:** Resolved LDW ECU's assembling complexity at the UK manufacturing plant. Resolved client issues with the integration difficulties of the windscreen bracket to the windscreen at Fiat manufacturing plant in Saint Gobain, Italy.

Co-op (Mechanical/Electrical)

- Performed testing and programming of ECUs, analyzed data, constructed reports, presentation, and solder wire harnesses.
- Performed FMVSS 208, Lateral Load, Bungee Sled, temperature, and moment tests of weight based occupant classification sensing system (OCSS).
- Designed lens mount component, built prototype ECU's for customers, data collection of vision based OCSS, back-up application, and LDW system.
- Collaborated in data collection, and testing for Ecotemp/LogiXense System, a pattern base occupant classification system (comparable to weight sensing system).

University of Michigan, Dearborn, Michigan (2004 - 2006)

Computer Lab Proctor

- Assisted students manage university engineering accounts.
- Resolved student issues with CAD and UNIX applications.

EDUCATION

Bachelor of Science, Mechanical Engineering, 2006

University of Michigan, Dearborn, Michigan

TECHNICAL SKILLS

- Windows 2000/XP/Vista, Microsoft Office, HTML WebPages, P-spice, MATLAB, Mathematica, True Basic Language, Adobe Acrobat, and Minitab.
- Unigraphics/NX3 with TeamCenter Engineering, IDEAS 8, and AutoCAD Design.