

# Douglas Bhatt

Senior Design Engineer

## CONTACT INFORMATION



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Scottsboro, AL 12345

## EDUCATION

### Bachelor of Mechanical Engineering

Auburn University, Auburn, AL  
2010 - 2014

## KEY SKILLS

- SolidWorks
- ANSYS
- AutoCAD
- GD&T
- DFMEA
- APQP / PPAP
- ISO 9001
- MS Project
- Six Sigma
- Lean Manufacturing

## ABOUT ME

Mechanical design engineer with 12 years of experience managing up to 6 concurrent projects across hydraulic manifold, structural weldment, and enclosure product lines. Revised blank layouts and consolidated part numbers into a shared nesting scheme, reducing material waste by 46.5% and saving \$57,810 annually. Holds a Professional Engineer License and has filed 3 utility patents across manufacturing roles using SolidWorks, ANSYS, and GD&T.

## PROFESSIONAL EXPERIENCE

### Senior Design Engineer I | 2019 - Present

Shoals Creek Manufacturing Group, Scottsboro, AL

- Managed 6 concurrent projects spanning hydraulic manifold, structural weldment, and enclosure product lines, delivering all milestones within scheduled timelines across a 14-month program cycle.
- Filed 2 utility patents for a quick-connect manifold interface design, both granted within 19 months of submission.
- Reduced material waste by 46.5% on a formed sheet steel enclosure family by revising blank layouts and consolidating 3 part numbers into a shared nesting scheme, saving \$57,810 annually.
- Mentored 4 junior engineers on DFMEA documentation and GD&T interpretation, cutting their average drawing revision cycle from 9 days to 5 days.
- Established a design review protocol using SolidWorks and ANSYS simulation outputs, standardizing approval gates for all new part releases.

### Design Engineer II | 2016 - 2019

Paint Rock Valley Fabrication LLC, Huntsville, AL

- Managed 4 concurrent projects for agricultural equipment assemblies, coordinating design deliverables with tooling, procurement, and production teams.
- Reduced material waste by 28.6% on a structural channel bracket line by redesigning web cutouts in SolidWorks, eliminating 1,740 pounds of scrap steel per quarter.
- Filed 1 utility patent for a self-aligning pivot bracket assembly that simplified field installation time from 45 minutes to 28 minutes.
- Conducted APQP phase reviews and prepared PPAP packages for 7 new part launches, completing each submission within 11 days.

### Design Engineer I | 2014 - 2016

Flint Creek Industrial Products, Decatur, AL

- Managed 3 concurrent projects for conveyor drive housing components, tracking task schedules in MS Project and completing all 3 within a combined \$89,410 spend limit.
- Reduced material waste by 19.5% on a cast iron bearing cap by modifying rib geometry and validating stress loads in ANSYS, saving 820 pounds of raw material per production run.

- Created parametric part models and assembly files in SolidWorks for 62 components across 4 product families, maintaining ISO 9001 document control standards.

## **CERTIFICATIONS**

- Professional Engineer License, Alabama Board of Licensure for Professional Engineers and Land Surveyors | 2019