

# Surinder Pal Singh

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Location: Rupnagar, Punjab, India

## PROFESSIONAL SUMMARY

Versatile and results-driven Mechanical Engineer with 8+ years of experience in the mechanical and sheet metal industries. Expertise spans hands-on fabrication, CNC programming, and Six Sigma methodologies, combined with advanced CAD design, product development, and project management. Specialized in design for manufacturability (DFM), structural analysis, and process optimization, delivering cost-effective and high-quality solutions for global clients such as Samsung, OnePlus, and Koenig & Bauer. Proven ability to enhance product quality, reduce production costs, and meet ISO, ASME, and SEFA standards. Actively seeking international opportunities with visa sponsorship and open to relocation in diverse work environments.

## WORK EXPERIENCE

### Designer & Developer - Mechanical

*Varpar Group, Nalagarh, India*

*Nov 2017 – Present*

- Designed and developed innovative sheet metal solutions for over 300 projects, including lab furniture, cabinets, and storage units.
- Created detailed 3D models and technical drawings using AutoCAD, NX, and Creo, reducing production errors by 20%.
- Conducted structural analysis and simulations, improving product durability by 15%.
- Generated CAM files for CNC, punching, laser cutting, and bending machines, reducing setup times by 10%.
- Spearheaded Six Sigma projects, cutting production waste by 8% and improving cycle times.
- Led material selection processes, achieving a 10% reduction in material costs.
- Managed Bill of Materials (BOM) and coordinated procurement to ensure timely resource availability.
- Implemented lean manufacturing techniques, increasing production efficiency by 12%.
- Collaborated with cross-functional teams to ensure compliance with ISO and ASME standards.
- Spearheaded prototype development, reducing time to market by 2 months.
- **Achievement:** Awarded 'Employee of the Month' (Aug 2021) for contributions toward SEFA certification for lab furniture.

### Designer & Developer - Mechanical

*Varpar Group, Nalagarh, India*

*Aug 2014 - Jul 2015*

- Developed CNC programs for punching, and laser-cutting machines, optimizing machine utilization.
- Designed cost-effective mechanical systems with a focus on manufacturability and quality output.
- Worked closely with the product development team to validate design feasibility.
- Tested and evaluated prototypes to ensure functionality and compliance with standards.
- Sourced materials and negotiated contracts with vendors, contributing to cost savings.
- Led continuous improvement projects, resulting in a 10% increase in production throughput.
- Documented technical designs, test results, and process improvements to ensure industry standard compliance.

## EDUCATION

### **MBA in Operations and Marketing**

*Lovely Professional University, Phagwara, India  
Aug 2020 - Jul 2022*

### **Bachelor of Technology in Mechanical Engineering**

*Global College of Engineering and Technology, Anandpur Sahib, India  
Aug 2015 - Jun 2018*

### **Diploma in CAD/CAM**

*GNA University, Phagwara, India  
Aug 2013 - Jul 2014*

### **Diploma in Mechanical Engineering**

*GTB Polytechnic College, Anandpur Sahib, India  
Jun 2010 - May 2013*

## KEY SKILLS

### **Technical Skills:**

- **CAD Software:** AutoCAD, NX 8.5, Creo 2.0, SolidWorks, Amada 6.0
- **CAM Programming:** CNC and NC Machining, Laser Cutting, Bending
- **Engineering Analysis:** Structural Analysis, Simulations, Design for Manufacturability (DFM)
- **Six Sigma:** Process Optimization, Waste Reduction, Continuous Improvement (Practical experience)
- **Fabrication Processes:** Sheet Metal Fabrication, Welding, Bending, Cutting, Drilling
- **Project Management:** BOM Management, Continuous Improvement, Lean Manufacturing
- **Quality Control & Standards:** ISO, ASME Compliance, Materials Selection

### **Soft Skills:**

- Cross-Functional Collaboration
- Problem-Solving
- Adaptability
- Technical Documentation and Communication Skills

## PROFESSIONAL CREDENTIALS

- Certified in Advanced CAD Design Techniques by PTC University USA (Feb 2014).

## VOLUNTEER WORK

### **Polling agent**

*Punjab state government election • Ropar, India  
Feb 2022*

- Ensured electronic voting machine (EVM) functionality and assisted in preventing voter impersonation during the election process.

## AWARDS AND HONOURS

### **Employee of the Month**

*Varpar Group, Nalagarh, India  
Aug 2021*

- Recognized for contributions toward achieving the SEFA certification for Lab Furniture.

## ADDITIONAL INFORMATION

- Actively seeking international opportunities with visa sponsorship in the mechanical and sheet metal

industries. Open to relocation and working in diverse cultural settings.