

## GAVAN SINGH

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## Packaging Engineer

### SUMMARY

Dynamic and highly motivated Packing Engineer seeking a long-term career with your esteemed organization. Brings a positive and collaborative attitude, result-oriented mindset, and motivated personality with a focus towards accomplishing individual and team goals through modern system approached techniques. Developed a strong knowledge base through the completion of multiple projects and tasks at the present company of employment, Draexlmaier.

### EDUCATION

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- **B.S Packaging Engineering** **2018**  
San Jose State University, San Jose, CA
- **Mastery in Packaging Management** **2020**  
Clemson University- The Packaging School
- **Associate Degree in Behavioral and Social Science** **2016**  
San Joaquin Delta College, Stockton, CA

### WORK EXPERIENCE

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**Packaging Engineer and Logistic Coordinator** **January 2019 - Present**  
Draexlmaier (Tier 1 Automotive Engineer Supplier) – Livermore, CA

#### Packaging Engineer

- **Projects**
  - Direct report to Project Managers and Senior Packaging Engineers for plant packaging activities
  - Collaborate with multiple packaging project teams for Tesla Model 3, Model Y, Model X and Lucid Motors
  - Lead Packaging Engineer for Tesla Model 3 China Gigafactory
  - Create packaging to support overseas shipment
  - Drive packaging projects for internal plant, vendors and customers
  - Design internal process packaging (WIP) and injection molding packaging for plants needs
  - Cost savings on packaging redesign and optimization
  - Work with cross-functional teams and stakeholders to execute packaging projects and implementation (Process Engineers, Injection Molding, Logistics, Inventory, Production Team, Quality Engineers)
  - Use Powerpoint to present packaging changes for plant and customer
  - Coordinate Engineering Change Orders for packaging and implementation with plant and project team
  - Develop packaging timeline to meet datelines and implementation timing
- **Cost Savings**
  - Multiple cost saving projects to achieve quarterly goals and maintain packaging budget
  - Reduce packaging materials from vendors to cut cost and wasted materials
  - Maintain budget by comparing forecast cost vs production needs
  - Changed materials to help support plant recycling project
  - Keep track of packaging inventory
  - Create a cost analyze on packaging prices with new changes
  - Present cost analysis to Draexlmaier Sales team and Engineer Change departments
- **Vendor Management**
  - Manage packaging vendors and suppliers for Livermore plant
  - Source vendors for present and future packaging projects
  - Provide consultation to Tier 2/ 3 suppliers to match Draexlmaier standards

- Execute request for quotes and procure in a SAP system
- **Design**
  - Design packaging for different departments to support production
  - Work and design different packaging materials for plant and suppliers (Corrugated boxes, plastic corrugated, polybags, steel racks, bulk packaging, foam, desiccants, pallets)
  - Develop WIP packaging for Injection Molding, Production and Process department
  - New Product Innovation packaging for different car components and parts. Design packaging by following specs and quality standards
  - Help support and design packaging for suppliers
  - Use Cubemaster/ Tops Pro to help optimize packaging for multiple projects and standardized packaging for customer and vendors
  - Plan and develop technical drawings for packaging concepts. Interpreted technical drawings (ArtiosCAD) for plant management and project managers
- **Testing**
  - Create test plans for packaging trials
  - Work with independent lab on packaging testing
  - Ship test to recreate live routes
  - Work with Quality team on products with packaging testing conducted
  - Analyze results and provided recommend changes or validation approvals
  - Create an engineering time study to calculate manufacturing timing and labor cost for packaging use
- **Document Control**
  - Create Packaging Data Sheets for suppliers to meet Draexlmaier and Customer packaging standards
  - Validate packaging concepts by following Packaging Data Sheets and quality checks
  - Coordinate packaging acceptance report with department heads
  - Develop packaging work instructions (SOP) to support plants productions
  - Update packaging database for Livermore plant and Tesla Packaging Portal (KPIs)
  - Control packaging documents with up to date specs and materials for plant
- **Logistic Coordinator**
  - Manage packaging inventory and KPI's
  - Key user for SAP BISS Shipping Program (Booking/ Releasing Shipments)
  - Train and certify plant workers on BISS Logistic System
  - Conduct quality checks on shipment for Tesla Demands
  - Manage packaging trials from other plants or suppliers

### **Packaging Engineer Intern**

**June 2017 - December 2017**

The Wine Group (Food and Beverage) - Ripon, CA

- **Projects**
  - Standardized all packaging testing machine for packaging lab
  - Procure a chamber tester for seal issues
  - Create a tracing program for plant packaging materials
  - Become C Good Manufacturing Practice certified
  - Lead weekly classes on CGMP for technician
  - Audit lines with basic knowledge of HAACP
  - Researched coefficient of friction for manufacturing lines
- **Testing**
  - Made sure each testing machine was up to ASTM and TAPPI Standards
  - Analyzed and created datasheet for packaging testing
  - Validated quality control test machines- Burst, Edge Crush Tester, Rub Tester, Can Seem Tester, Camber Testing, Mocon Shelf Life Tester, Torque Test
- **Documentation Control**
  - Created SOP for packaging testing machine and test plans
  - Kept training logs for technicians
  - Created data sheets and daily logs for testing machines

## RELEVANT COURSEWORKS AND SKILLS

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- **Mastery in Packaging Management**
  - A course provided by Clemson University. Overall project to create Packaging Development Plan (PDP) Course outline: Packaging project management, material management, design workflow. Learning about optimization of packaging and improve production efficiency, labeling and finishing, Logistic and Supply Chain management and vendor management
- **Medical Device and Pharmaceutical Packaging**
  - Validation (IQ, PQ, OQ) and knowledge of ISO and ASTM standards. Designed a packaging system for multiple medical device items. Made thermoforming trays and molds for medical devices. Knowledge of different sterilization technique and six criteria of medical device packaging. Basic knowledge of FDA law for medical device and biopharmaceutical packaging. Title 21 of CFR. Labeling regulation.
- **Packaging Testing and Machine Experience**
  - Conducted torque testing, can-seem test, burst test, heat seal test, pull test, burst test, angle slider test, bubble test, drop test, compression test, Sutherland Label Rub test and water chamber. Knowledge of packaging machines- FFS, weight fills, packaging line, injection molding.
- **Packaging Material Science**
  - Integrated the knowledge of different polymers and their uses, as well as the ideas and concepts of containers and flexible packaging. Integrate the use of different corrugate and paperboard concepts. Learned properties of polymers and uses.
- **Supply Chain and Logistic**
  - Completed multiple projects on TOPS Pro. Knowledge of primary logistic activities and connections with packaging. Utilized product dimensions and specs in order to optimize shipping capabilities. Optimized storage in facilities and trailers.
- **Protective Packaging Design and Testing**
  - Worked with Westpak Testing Company on final project. Created and developed a damping and foam system to protect product. Conducted shock and vibration and drop testing on product to find fragility components. Learned about protective packaging for transit. Used ISTA standards to test packaging.
- **ArtiosCAD**
  - Used the Kongsberg cutting table for multiple design/ printing project, designing boxes/packaging from dieline and sketches. Composed variety of projects using company packaging examples like Cisco, Amazon and GE.
- **Good Manufacturing Practice (GMP)**
  - Online course offered by Cornell University. Learned good sanitation practice and the organization of work area and plant operations. Learned about GMP regulations, FDA's FSMA, and training updates. Finished course and made presentations for the Wine Group Continuous Improvement Team
- **Microsoft Office and Computer Tools**
  - Excel, Outlook, Words, Powerpoint, Teams, Cisco Jabber, SAP, Tops Pro, ArtiosCAD, Project Lifecycle Management