

# PABLO U. AVILA

INDUSTRIAL DESIGNER

[www.puaviladesign.co](http://www.puaviladesign.co)  
puaviladesign@gmail.com  
[linkedin.com/in/pablouavila/](https://www.linkedin.com/in/pablouavila/)  
818.400.0291  
los angeles, ca

## SUMMARY

- A design engineer with over 5 years of experience conceptualizing, engineering, and prototyping designs for manufacturability using ASME standards of dimensioning, and tolerancing to reduce production time and cost. All the while maintaining a data management system that allows shop and office personel quick access to drawing documentation needed by domestic and international manufacturers.

## EDUCATION

**Bachelor of Science in Product Design,**  
ArtCenter College of Design,  
Pasadena CA

**Associate Degree in Digital Media,**  
Los Angeles Mission College,  
Sylmar CA

## SKILLS

Root cause analysis, tolerance analysis, rapid prototyping, dimensioning, 3D modeling, concept design, design testing, 3D printing, project management, team player, self motivated, organized, detail oriented.

## Software

Solidworks, solidworks visualize, illustrator, indesign, photoshop, keyshot, sketchup, procreate, smart sheets, excel, powerpoint

## WORK EXPERIENCE

**Design Engineer**  
DGS Retail, Castaic, CA  
03/2022- Present

- Design, engineer, prototype, and finalize complex assemblies integrating sheet metal, composites, wood and electronics to meet clients needs.
- Reduced search time of detailed drawings, released models, and drawing documentation by maintaining a high-standard product data management system (PDM) of parts and assemblies.
- Managed multiple projects concurrently through detailed scheduling, vendor resourcing, and material availability to prioritize tasks, and meet project deadlines.
- Presented low-cost solutions to senior engineers, designers, and prototypers in design reviews to reduce project spending and delivery.
- Resolved complex challenges of critical mechanical components and design limitations related to design requirements, manufacturability, and feasibility through tolerance analysis, dimensioning, and 2D/3D rapid prototyping.
- Coordinated engineering support throughout the prototyping, testing, and product verification stages.
- Developed manuals for on-filed and in-house manufacturing using solidworks and adobe illustrator under the consultative direction of lead engineers.
- Conduct feasibility studies and testing on new and modified designs in direct support of shop prototyper in preparation of detailed design documentation, design testing, and prototype fabrication.
- Develop detailed manufacturing packages (including BOM, 3D CAD database, detailed part drawings, and detailed assembly drawings) for effective design transfer to overseas manufacturers using Solidworks.

**Industrial Designer**  
Hemisphere, Valencia, CA  
06/2019- 09/2022

- Developed concepts, documentation, and manufacture-ready files for CNC machining, laser cutting, and/or 3D printing, based on part application.
- Optimized assembly and reduced manufacturing times by collaboratively working with shop personnel to create tools that streamlined assembly for in-house manufacturing.
- Effectively communicate product concepts and ideas to clients through high-fidelity illustrations and renders to reach design and production milestones.
- Tested design deficiencies of mechanical components and assemblies through fail-fast prototyping and developed effective low-cost solutions.