

Product Development Engineer with 10+ years of 3D printing experience and 2+ years developing consumer products from concept through production. Skilled in CAD design, rapid prototyping, additive manufacturing, product testing, and supplier collaboration. Experienced managing industrial and desktop 3D printer fleets while bringing innovative products to market for powersports, outdoor recreation, and consumer applications.

Skills and Software

- Physical Prototyping
- Concept Development
- Design Storytelling
- Clear Goal Communication
- Creative Ideation
- Design For Manufacturing
- Additive Manufacturing
- Laser Etching and Cutting
- Shop Tool Skills
- Solidworks
- Fusion360
- Adobe Creative Suite
- Office 365
- EinScan Softwares (Shinning 3D)
- Bambu Farm Client
- Orca Slicer, BambuSlicer, Cura

Career Interest

- Product Material Testing
- Material Experiments
- Production ready prototyping
- Product Variant Development
- Interdisciplinary Design Process
- Human Experience
- Sustainable Design

Work Experience

Product Development Engineer
Knight ATV — Tinton Falls, NJ
Jan 2024 – Present

- Design and launch aftermarket accessories for ATVs, side-by-sides, and golf carts from concept through production.
- Lead product development efforts including concept ideation, CAD modeling, prototyping, testing, and production implementation.
- Manage a fleet of 13+ industrial and desktop 3D printers producing prototypes and production-ready consumer products.
- Create assembly instructions, technical documentation, and manufacturing support materials to improve production efficiency and quality.
- Collaborate with engineering, assembly, and operations teams to support product launches and continuous product improvements.
- Coordinate with overseas manufacturers and suppliers to support sourcing, manufacturing transitions, and production readiness.

Owner / Product Designer
Chris Palangio Design – Aloha Golf Cart Accessories
May 2025 – Present

- Design, manufacture, and sell aftermarket golf cart accessories using CAD, rapid prototyping, and additive manufacturing.
- Develop products from concept through final production while validating fitment and performance on real-world vehicles.
- Optimize designs for strength, material efficiency, manufacturability, and repeatable small-batch production.
- Conduct material testing and product refinement to balance durability, functionality, and cost.
- Create product photography, marketing content, and online product listings to support sales and brand growth.

Freelance Industrial Designer
Chris Palangio Design
May 2023 – Present

- Provide industrial design and product development services for consumer and functional product categories.
- Transform concepts into production-ready CAD models, prototypes, and visual presentations.
- Support clients with design refinement, manufacturability reviews, and product development strategies.
- Create renderings, design documentation, and prototype solutions to communicate product intent and functionality.

3D Designer

JMP Wood — Linden, NJ
Oct 2023 – Jan 2024

- Created 3D models and photorealistic renderings for website, marketing, and product visualization.
- Developed digital assets and advertisements supporting brand growth and customer engagement.
- Collaborated with internal teams to explore new product concepts and design directions.
- Produced visual content that communicated product features, craftsmanship, and brand identity.

Education

Bachelors of Industrial Design (BID)
Kean University-Union, NJ