

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

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, rapid prototyping, product testing, and production implementation.
- Designed and launched multiple aftermarket accessories for Can-Am, CFMOTO, Yamaha, and Evolution Golf Cart platforms.
- Manage a fleet of 13+ industrial and desktop 3D printers supporting rapid prototyping and production part manufacturing.
- 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.

Community Product Designer
MakerWorld Creator Community
May 2023 – Present

- Design and publish original 3D printable products focused on consumer products, audio devices, and functional accessories.
- Engage with a global community of makers, utilizing user feedback to rapidly iterate and improve designs.
- Create CAD models, prototypes, and documentation to support successful product builds and user adoption.

Education

Bachelors of Industrial Design (BID)
Kean University-Union, NJ
Robert Busch Full Scholar Recipient
Cumulative GPA- 3.6