

MICHAEL ELZEY

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PROFESSIONAL SUMMARY

Driven and experienced 3D printing specialist with over a decade of expertise across multiple additive manufacturing technologies and digital workflows. Adept in FDM, SLA, DLP, SLS, and DMLS systems, with deep knowledge in CAD modeling, post-processing, material handling, and production scaling. Passionate about pushing the boundaries of design and fabrication by integrating artistic vision with technical precision. Proven record of collaborative teamwork, creative problem-solving, and workflow optimization across high-paced environments and consulting roles. Experienced in managing full-scale resin print farms, overseeing end-to-end manufacturing workflows from model intake to final shipment.

EXPERIENCE

Senior Process Technician

Shapeways – New York, NY

June 2021 – December 2022

- Liaised with Supply Chain to optimize volume allocation and maintain lead-time, cost, and performance KPIs.
- Assessed feasibility of customer models against material constraints and benchmarks.
- Planned and maintained 3D printer schedules for maximum utilization.
- Handled end-to-end production processes including order prep, cleaning, curing, packing, and shipping to ISO 9001 standards.
- Conducted quality control inspections and collaborated on continuous process improvements.
- Diagnosed and reduced equipment failure rates, implemented preventative maintenance routines.
- Managed the resin printing department as a print farm operator, ensuring high output and production consistency across a large fleet of machines.

Consultant – Additive Manufacturing & 3D Modeling

Pascucci3D – Remote

January 2023 – December 2023

- Provided 3D modeling services and advised on advanced print workflows for prototyping and production.
- Recommended machine configurations and materials to improve throughput and quality.
- Created optimized 3D assets for client-specific applications including product design and presentation models.
- Advised on print orientation, support strategy, and resin/material choice to meet quality and cost targets.
- Collaborated on prototyping strategies and documented best practices for repeatable outcomes.

Consultant – 3D Printing Department

Viridian Technology LLC – Remote

January 2024 – November 1, 2024

- Supported model optimization and digital workflow improvements in SLA production.
- Established standard operating procedures for resin handling and printer maintenance.
- Conducted training for team members on proper 3D model preparation and post-processing workflows.
- Recommended printer settings, resins, and layout strategies to increase print reliability.
- Troubleshoot failures and identified process bottlenecks, contributing to smoother departmental output.

Delivery Driver

Postmates / DoorDash – Conway, AR / Ramsey, NJ

May 2019 – August 2021

- Independently managed routes with timely and courteous deliveries.

Delivery Driver & Cook

Pizza Hut – Conway, AR

March 2019 – November 2019

- Delivered food orders efficiently and assisted in kitchen operations and food prep.

Team Member

Rally's Restaurants – Conway, AR

September 2018 – November 2018

- Operated front line service, cleaned facilities, and rotated inventory.

Mentor

UCA Makerspace powered by Conductor – Conway, AR

February 2018 – September 2018

- Taught 3D printing, CAD design, and operation of CNC milling and laser systems.

EDUCATION

Fountain-Fort Carson High School – Colorado Springs, CO

Diploma – May 2013

SKILLS

3D Printing & Fabrication

FDM, SLA, DLP, SLS, DMLS, EnvisionTEC, Post-processing, Machine Maintenance, Resin Handling, Material Optimization, Print Farm Management

CAD & Modeling

Blender (13+ years), 3ds Max, Fusion 360, Asset Creation, UI Design, Unity, CNC Milling, Laser Cutting

Programming & Web

Python (5 yrs), HTML5/CSS (6 yrs), Java, C/C++

Software & Graphics

Photoshop (12 yrs), After Effects (5 yrs), Graphic Design, Photo Manipulation, Microsoft Office Suite

Other

Inventory Management, Customer Service, Electronics Repair, Shipping/Receiving, Quality Control, Computer Hardware & Repair