

Jiafeng Di

Email: jiafengdi@alumni.upenn.edu | Tel: (+1) 267-249-0653 | Address: 12356 Alamosa Dr, Rancho Cordova, CA 95742

EDUCATION

UNIVERSITY OF PENNSYLVANIA	2022-2023
<ul style="list-style-type: none">Master(Master of Science in Design-Advance Architectural Design) Architecture GPA: 3.79 / 4Core Courses: Advanced Architectural Design Studio, Contemporary Theory, Design innovation, Biomateria Architectures, New Materials and Methods, Visual Literacy. Etc	Philadelphia, PA, US
TAIYUAN UNIVERSITY OF TECHNOLOGY	2015-2020
<ul style="list-style-type: none">Bachelor(Bachelor of Engineering) Architecture GPA: 3.71 / 4Core Courses: Architecture Design, Building Strucutre, Analytic Construcution, Architectural Drawing, Architectural Physics, Etc	Taiyuan, Shanxi, China

PROFESSIONAL EXPERIENCE

ZMC Kitchen & Bath, Inc	Sacramento, CA
Production & Equipment Integration Manager Full time	01/2025 – Present
<ul style="list-style-type: none">Led digital-to-physical production workflow: Oversaw CNC-based systems including six-sided drilling and edge banding, ensuring seamless transition from digital design files to physical fabrication. This strengthened overall precision and reliability in custom cabinetry production.Drove measurable efficiency gains: Optimized fabrication processes and scheduling strategies, resulting in a 40% increase in output and 35% reduction in rework. These improvements highlighted strong process optimization and problem-solving skills.Strengthened technical expertise: Directed equipment troubleshooting and calibration, developing in-depth knowledge of path planning and digital fabrication pipelines.Enhanced collaboration and reliability: Coordinated cross-team operations and led operator training, improving workflow consistency, safety, and production reliability.	
RBSD Architects P.C.	New York, NY
Project Designer Full-time	01/2024-01/2025
<ul style="list-style-type: none">Architectural Drafting & Spatial Planning: Produced and optimized detailed construction drawings, including RCPs and lighting layouts, ensuring accuracy and reducing costly revisions.3D Modeling & Design Development: Applied Rhino and Grasshopper to create complex geometries, improving feasibility and accelerating project delivery by 20%.Visualization & Presentation: Developed high-quality renderings with Lumion and V-Ray, enhancing design communication and achieving faster client approvals.Collaboration & Project Delivery: Coordinated across design and engineering teams to align project standards, contributing to a 95% on-time completion rate.	

ACADEMIC RESEARCH EXPERIENCE

UNIVERSITY OF PENNSYLVANIA	Philadelphia, PA
AAD Fabrication Studio	2022-2023
<ul style="list-style-type: none">Utilized AI and machine learning to generate conceptual drawings and assist in design decisions: Employed AI tools such as MidJourney and Stable Diffusion to create innovative conceptual drawings, using machine learning algorithms to optimize design processes and assist in making key project design decisions.Constructed detailed large-scale physical models: Used materials like Acrylic, Corian, and PLA, along with 3D printing and laser cutting technologies, to produce detailed large-scale physical models for design validation and presentation.Researched and optimized mycelium material applications in sustainable architecture: Conducted daily experiments to test different mycelium combinations under controlled conditions, documenting their response to variables like humidity and temperature to improve material formulations. Participated in pilot projects applying mycelium to small structures, monitoring environmental adaptability and long-term performance to assess the material's feasibility in architecture.Researched robotic arm clay printing to pioneer innovative applications: Explored interdisciplinary methods linking digital design, material experimentation, and future construction approaches.	

PUBLICATION

Architectural Design Works: The Stuffing, Shingle and Structure	10/2023
<ul style="list-style-type: none">Published in the Pressing Matters magazine of 2023-2024 from the Department of Architecture at the University of Pennsylvania Stuart Weitzman School of Design. The first author, with collaborators Dao Wu and Bhavana Priya B.	

STUDENT AWARDS

<ul style="list-style-type: none">Outstanding GraduateNational ScholarshipFirst-class Scholarship	09/2017-07/2023
Honors from the university during undergraduate studies.	

SKILLS

Digital Fabrication	Robotic Arm (KUKA clay printing), CNC, Six-sided Drills, Edge Banding, 3D Printing, Laser Cutting
Design & Modeling	Rhino, Grasshopper, Houdini, ZBrush, Revit, AutoCAD, SketchUp
AI & Visualization	MidJourney, Stable Diffusion, V-Ray, Lumion, Enscape, Keyshot, Adobe Suite
Languages	English, Chinese