

Annielise Nguyen

Senior Millwork Engineer | Project Engineer | Architectural Casework Specialist
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Professional Summary

Seasoned Millwork Engineer and Project Engineer with a proven record of translating architectural vision into manufacturable, installation-ready solutions. Skilled in Microvellum, AutoCAD, SolidWorks, and CNC workflows, combining creative design sense with process discipline. Known for mentoring junior engineers, optimizing production accuracy, and aligning design intent with AWI/NAAWS fabrication standards. Demonstrated success leading large-scale civic, educational, and athletic facility projects across the U.S.—delivering precision-engineered millwork packages that consistently meet deadlines, budgets, and client expectations.

Career Highlights

- \$15M+ in total project value delivered across civic, educational, and athletic facilities
- 0% rework on Richardson Public Library project through field-verified precision
- 30% faster assembly / 25% fewer errors through workflow optimization and parametric modeling
- 3,500+ part custom assemblies designed and released for fabrication
- 40% reduction in engineering turnaround via custom Microvellum templates
- Cross-disciplinary leadership: coordinated sales, design, engineering, and shop teams nationwide

Core Accomplishments

- Innovation & Efficiency: Developed advanced Microvellum parametric templates and material libraries, reducing design time 40% and eliminating repetitive re-work cycles.
- Leadership & Mentorship: Guided junior engineers on design intent, material choice, and manufacturability, improving consistency and reducing QC issues.
- Field Precision: Led field verification for multi-story civic buildings, ensuring perfect fit and zero site adjustments.
- Cross-Team Coordination: Bridged communication between architects, GCs, installers, and production crews, turning design challenges into actionable fabrication solutions.
- Quality & Compliance: Maintained strict adherence to AWI/NAAWS standards from submittal through installation, upholding both structural integrity and aesthetic intent.

Key Projects

- Richardson Public Library (Public Works)

Managed complete casework and millwork package from submittal to installation. Conducted 4-story field verification in a single day; achieved zero rework and perfect ADA-compliant installations.

- Princeton ISD Administration Building (Education)

Led design and field coordination for extensive wall panel systems and a custom curved conference desk. Collaborated directly with architects and engineers to integrate lighting and HVAC with millwork features for seamless fit and finish.

- Boston College Football Locker Project (Sports Facility)

Partnered with sales and coaching staff to design fully customized locker systems combining aesthetics, function, and privacy. Coordinated between front-end (coaches, athletes, sales), engineering, and shop teams. Secured major contract and record annual revenue; praised for innovation, fit, and usability.

Professional Experience

Signature Casework — Dallas TX

Microvellum Engineer / Casework Designer / Project Engineer (2025 – Present)

- Lead engineer responsible for architectural casework packages from bidding through installation.
- Work closely with architects, GCs, and installers to deliver high-quality, AWI-compliant fabrication packages.
- Engineered custom casework, wall panels, reception desks, and specialty millwork for civic and corporate projects using Microvellum and CNC data integration.
- Verified field measurements and adjusted design models to as-built conditions to ensure flawless fit.
- Mentored junior engineers on material selection (cost, durability, aesthetic, manufacturability).
- Coordinated change orders and schedule updates through weekly architect/GC meetings.
- Developed cut lists, assembly views, and CNC-ready output packages that improved shop communication and installation accuracy.
- Balanced multiple projects using custom tracking systems to prioritize risks and meet deadlines.

3D Modeler / Design Engineer – Venus TX

Longhorn Locker Company LLC - (2021-2022)

- Promoted from 3D Render Artist to Design Engineer for strong mechanical and aesthetic integration skills.
- Engineered 50+ custom locker and casework systems for collegiate and professional sports facilities.
- Designed complex 3,500-part assemblies with custom storage and ventilation features.
- Led Boston College Football Locker Project from concept to fabrication; partnered with sales, coaches, and shop teams to deliver a functional and iconic solution that drove significant revenue growth.
- Improved assembly efficiency by 30% and reduced production errors by 25%.
- Supported R&D of new locker lines that generated \$15M+ in company revenue.

Freelance (Remote)

3D Modeler (2020 – 2024)

- Provided fabrication-ready CAD models and documentation to builders and architectural design firms nationwide.
- Managed revision control and client coordination independently.

Creative Fun Arts & Crafts Studio, Richardson TX

Owner/ Manager (2017-2020)

- Managed 100+ events annually, supervised project setup, inventory, and material preparation to maintain quality.
- Implemented inventory controls that reduced material waste by 15%.

Painting Instructor — VIP Paint, Chicago IL (2016)

- Led 50+ large-scale art workshops and created instructional templates for diverse audiences.

Technical Expertise

- Software: Microvellum (advanced), AutoCAD, SolidWorks, Blender 3D, Adobe Creative Cloud
- Core Skills: Shop Drawings | Submittals | CNC Programming | Cutlists | Field Verification | Production Coordination
- Industry Knowledge: AWI / NAAWS Standards | Architectural Casework | Millwork Fabrication | Material Optimization
- Productivity: Microsoft Office Suite | Change Order Control | Documentation & QC
- Languages: English & Vietnamese

Education

Bachelor of Arts — Cinema Art & Science (Traditional Animation)

Columbia College Chicago

Additional Qualifications & Achievements

- Expert in architectural documentation, field coordination, and as-built revisions.
- Proficient in CNC machining verification and installation support.
- Proven record of fast-track project delivery with 100% schedule compliance.
- Strong communicator across architects, engineers, and fabrication teams.
- Bilingual in English and Vietnamese.