Brian M. Stevens

Engineer (UXE) | Product Design | Mechanical Engineering

New Product Development (NPD) • Additive / Subtractive Manufacturing (AM / SM) • Emerging Technologies

(+ user experience engineer)

Contact Information

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Summary of Experience

UXE Engineer specializing in Product Design, Mechanical Engineering, New Product Development (NPD), Advanced Manufacturing (AM), and Meta-Engineering methodologies.

Over 15 years of continuous innovation focused on DFM / DFMA geometry optimization, AM (additive manufacturing), manufacturing automation, advanced materials, and product performance enhancement. Experienced in developing stronger, lighter, faster products through the integration of advanced geometry design methodologies, manufacturing processes, and emerging technologies.

Core expertise includes optimize form-follows-function geometry, thermal management geometry, electronic hardware enclosures, rapid firearms hardware, multi-part manufacturing fixtures, autobot / cobot automation integration, and advanced manufacturing workflows.

Areas of Specialization

UXE Mechanical & Product Meta-Engineering

- Geometry Optimization
- Meta-Functional Gradients
- Surface Engineering
- Advanced Materials Development
- Additive Manufacturing Integration
- Performance-Based Design Methodologies
- ADF (advanced design forecasting)

Product Development

- New Product Development (NPD)
- Rapid Prototyping
- Product Architecture
- Design Optimization
- Manufacturing Readiness

Manufacturing Engineering

- Manufacturing Automation
- AutoBot / CoBot Integration
- Manufacturing Process Optimization
- MFA (Modernize For Automation)
- Facility Optimization
- Production Scaling

Professional Experience

2010–2026+ (Continuous Engineering, Design & Manufacturing Development)

Engineering Focus

Development of advanced engineering solutions across:

- Electronic Hardware Enclosures
- Firearms Components and Assemblies
- Manufacturing Fixtures
- Automation Systems
- Advanced Material Applications
- Additive Manufacturing Technologies

Manufacturing Optimization

- Production workflow optimization
- Process modernization initiatives
- Automation deployment strategies
- Manufacturing cost reduction
- Assembly simplification
- Production scalability forecasting

Engineering Methodologies

Form Follows Function

Development and re-optimization of products and assemblies through manufacturing-focused engineering principles.

RFI (Rapid Flex-Model Iterations)

Predictive CAD modeling methodology enabling:

- Parametric flexibility
- Geometric stability

- Design intent preservation
- Controlled feature evolution
- Rapid iteration cycles

PXE (Predictive Experience Engineering)

Geometry-first engineering methodology requiring technologies and manufacturing processes to adapt to forecasted functional requirements.

Advanced Additive Manufacturing

Experience with:

- Mechanical Meta-Metals
- High-Temperature Meta-Polymers
- Rapid Prototyping Systems
- HP Multi Jet Fusion (MJF)
- Emerging Manufacturing Technologies
- Manufacturing Adoption Forecasting

Quality & Compliance

Standards Experience

- ISO 9001
- ISO 10012:2003
- AS9100
- FAA/EASA Requirements
- ISO 13485
- RTCA DO-160
- ASME Y14.5 / ANSI Y14.5

Quality Disciplines

- Quality Management Systems (QMS)
- Validation & Verification (V&V)
- Compliance Development
- Process Establishment
- Continuous Improvement

Design for Manufacturing Excellence

DFM (Design for Manufacturing)

Design optimization focused on manufacturing efficiency, production throughput, and cost reduction.

DFMA (Design for Manufacture & Assembly)

Assembly simplification through geometry-driven optimization.

Benefits include:

- Reduced part count
- Lower assembly time
- Reduced manufacturing costs
- Faster product launches
- Improved production scalability

MBD (Model-Based Definition)

Drawing-less engineering workflow utilizing:

- CAD-driven requirements

- Digital product definition
- AI-assisted fabrication analysis
- Automated BOM generation

Technical Competencies

Advanced Manufacturing

- AAM
- AMM
- PMO
- DOE
- MTA

Quality & Validation

- GD&T
- APQP
- V&V
- QMS
- TA

Analysis & Engineering

- FEA
- MEF
- MAF
- FEF

Confidential & Protected Program Experience

Protected Programs

Engineering support and modeling for:

- NDA-Protected Programs
- Intellectual Property Development
- Stealth Product Development
- Confidential Manufacturing Initiatives

Organizations & Programs

huckleberry17

2010–2025 (Continuous Engagement)

Meta-engineering product think tank focused on:

- Hidden Technology Reimagining
- Manufacturing Integration Strategies
- Rapid Reverse Engineering
- Advanced Product Concepts

Firearms Development Program

2020–2025 (Confidential Startup)

- New Product Development
- Manufacturing Technology Optimization
- Product Architecture Development

Electronic Enclosures Program

2017–2025 (Confidential Startup)

Development of advanced electromagnetic meta-material polymer technologies and enclosure systems.

Kaizen+ Continuous Improvement

Engineering Optimization

Application of Kaizen methodologies to:

- Engineering Processes
- Manufacturing Systems
- Operational Excellence
- Facility Optimization

Core Activities

- Order-of-Operations Optimization
- First-Principles Engineering Analysis
- Production Forecasting
- AI Manufacturing Optimization
- Cost Modeling
- Manufacturability Forecasting

Product Lifecycle Management (PLM)

Concept

- Idea Generation
- Feasibility Studies
- Market Alignment

Design

- CAD Modeling
- Engineering Simulation
- Rapid Prototyping

Manufacturing

- Material Selection
- Production Planning
- Assembly Development

Testing

- Validation
- Quality Assurance
- Regulatory Compliance

Deployment

- Product Launch
- Integration
- Operational Support

CAD & Engineering Software

Primary Platforms

- Autodesk Fusion CAD / CAM Manufacture
- AutoCAD (permanently depreciated)
- SolidWorks (permanently depreciated)

Engineering Methodologies

- Master Modeling
- Parametric Modeling
- FLEX Modeling
- Rapid Iteration Workflows

- Mobile Engineering Workstations

Whitepapers & Technical Publications

New / Hidden Technology Integration (2026)

View Google Doc

AI AutoBot / CoBot Manufacturing Integration

View Google Doc

CoBots / Stronger, Lighter, Faster

cobots.brianux.com

Instant layer Materialization Printing

materialize.brianux.com

Mentoring & Education

The American Academy

Mentoring future engineers and technical innovators.

Note: Launch Youth CAD Engineering Apprenticeships

In addition to hiring for this position, consider establishing **youth CAD engineering apprenticeships**.

- Start now and realize the benefits sooner rather than later — this can be implemented alongside existing hiring efforts and is easier than you think.
- America needs the next generation of engineers as it re-emerges as an advanced AI-driven manufacturing superpower.
- Introduce young talent to modern engineering workflows by making **Fusion 360** a foundational requirement.

Start an Internal Program — "START HERE"

Fusion 360 . Training Resources

https://360.brianux.com

Don't get left behind as skilled engineers become increasingly scarce.

Start today. 😎♠️🇺🇸

KYDS

Keep Youth Doing Something

Focused on developing future generations of engineers through:

- STEM Mentorship
- Product Development Exposure
- Engineering Fundamentals
- Innovation Methodologies

Class of 2025

https://class.brianux.com

Personal Motto

"The Best Is Yet To Come." 🇺🇸

Brian M. Stevens | 2026

UXE Engineer (Product Development & Emerging Technologies)

Hidden Technology Integration • Manufacturing Innovation • Product Optimization