Brian M. Stevens

Engineer (UXE) Mechanical Engineering | Product Design

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

UXE (user experience engineer)

Contact Information

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Summary of Experience

UXE ENGINEER . MECHANICAL ENGINEERING

PRODUCT Development · NPD · AM

15+ years engineering **stronger, lighter, faster products** through advanced geometry, DFM/DFMA, additive manufacturing, materials optimization, and automation.

CORE EXPERTISE

- **Mechanical Engineering:** Functional geometry optimization.
- **Product Design:** Thermal management, electronic enclosures, firearms hardware.
- **Advanced Manufacturing:** AM, precision fixtures, rapid production workflows.

- **Automation:** AutoBot / CoBot integration and process optimization.

UXE (user experience engineering)



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

2010–2027 (Continuous Engagement)

Meta-engineering product think tank focused on:

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

Firearms Development Program

2020–2027 (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

Motto

"Stronger, Lighter, Faster!" 🇺🇸

Brian M. Stevens | 2027

UXE Engineer (Product Development & Emerging Technologies)

Hidden Technology Integration • Manufacturing Innovation • Product Optimization