



# Seth Jamison Kitchen

**Professional Engineer, Missouri · License No. PE-2026001392**

Structural Engineering · Forensic Engineering · Expert Witness

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## PROFESSIONAL SUMMARY

Seth Kitchen is a Missouri-licensed Professional Engineer offering structural engineering review, forensic analysis, and expert engineering opinion and testimony. His background spans aerospace, agricultural, and computer engineering, with experience designing and reviewing complex systems in regulated environments including software, distributed systems, control systems, and embedded hardware. Seth has led engineering teams, conducted formal verification and testing, and provides sealed engineering documents for residential permit submissions, structural review, and forensic investigation across Missouri.

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## LICENSURE & CREDENTIALS

Professional Engineer — Missouri

*License No. PE-2026001392*

Professional Liability Insurance — Lloyd's of London

*Policy ANE1751 · \$1,000,000 per claim*

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## EDUCATION

BS Aerospace Engineering

*Missouri University of Science & Technology ·  
2019*

BS Computer Engineering, Electrical Engineering Minor

*Missouri University of Science & Technology ·  
2019*

Computational Intelligence Emphasis

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## ENGINEERING PRACTICE

**Professional Engineer — Seth Jamison Kitchen, PE**

Saint Louis, MO

*January 2026 – Present*

Independent PE practice providing structural engineering review, residential permit calculations, forensic analysis, and expert witness services across Missouri. Clients include homeowners, contractors, real estate buyers, and legal counsel.

- Residential structural calculations and sealed permit submittals — decks, structural openings, hot tub enclosures, additions
- Forensic structural analysis — fire damage assessment, structural defect investigation, pre-purchase due diligence
- Engineering opinion letters and sealed reports for permit authorities and legal proceedings
- Expert engineering opinion and testimony for attorneys and legal proceedings

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## TECHNICAL BACKGROUND

Seth's engineering background spans multiple disciplines with particular depth in complex systems operating under regulatory and safety constraints:

- Aerospace systems: Chief Engineer on altitude record-breaking collegiate rocket program including motor-fed staging, guidance systems, and Wi-Fi telemetry over helical antenna
- Embedded and safety-critical hardware: FAA-compliant embedded software and hardware simulation for aviation electronic systems (C, ARM assembly)

- Regulated systems engineering: extensive experience designing and reviewing complex software and hardware systems with formal verification and testing requirements
- Predictive modeling and analysis: deep learning models for energy systems reducing mean squared error by 100x
- Ongoing advanced study in control systems engineering
- Competitive programming: Rank 6 globally on open.kattis.com; 1st Place Global Hack VI (\$100,000 prize)

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## ACADEMIC & RESEARCH WORK

- Teaching Assistant — Engineering Dynamics, Missouri University of Science & Technology
- Teaching Assistant — Operating Systems, Missouri University of Science & Technology
- On the Existence of Perfect Cuboids — 1st Place, Undergraduate Research Fair
- Wi-Fi Telemetry System — 1st Place, ITC
- On Formal Concepts Related to Partial Credit Grading
- On Parafoils Related to Human-Powered Bicycle Aircraft

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## EXPERT WITNESS SERVICES & RATES

Services: attorney consulting, engineering calculations, written reports, sealed engineering documents, forensic analysis, expert opinion letters, deposition support, trial testimony.

Attorney Consultation	<b>\$275/hr</b>
Document Review & Analysis	<b>\$275/hr</b>
Deposition Testimony	<b>\$375/hr</b>
Trial Testimony	<b>\$400/hr</b>
Travel	<b>Actual expenses + \$150/hr portal to portal</b>