Mikhail Hanson

Diagnostics Intern

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SUMMARY

Current Civil Engineering student with experience in structural diagnostics and restoration projects. Collaborated with engineering teams on comprehensive evaluations of commercial structures. Skills include AutoCAD, technical writing, and effective teamwork. Eager to apply knowledge in forensic engineering and rehabilitation efforts. Strong communicator focused on achieving results through innovation. Passionate about learning and contributing to high-impact projects that enhance building integrity and safety. Committed to engaging with stakeholders and addressing challenges in civil engineering design.

EDUCATION

Bachelor of Science in Civil Engineering

Springfield University GPA: 3.5 2026 Springfield, IL

Coursework: *Structural Analysis, Concrete Design, Construction Management, Building Systems*

TECHNICAL SKILLS

- **Structural Analysis Software:** SAP2000, AutoCAD, ETABS
- **Project Management Tools:** Microsoft Project, Trello, Asana
- **Data Collection Methodologies:** Surveys, In-Situ Tests, Lab Testing
- **Presentation Tools:** PowerPoint, Prezi, Google Slides
- **Maintenance Strategies:** Preventive, Predictive, Condition Monitoring
- **Technical Writing Practices:** Reports, Proposals, Research Papers
- **Building Codes:** IBC, BPC, ASCE Standards
- **Surveying Instruments:** Total Stations, GPS, Levels
- **Forensic Investigation Techniques:** Deterioration Analysis, Material Testing, Visual Inspections
- **Construction Safety Practices:** Risk Assessment, OSHA Guidelines, Safety Plans

EXPERIENCE

Student Research Engineer

University Project January 2026 - Present Springfield, IL

Contributed as a Student Research Engineer focusing on the assessment of local commercial buildings' structural integrity and performance, driving collaborative solutions for project success.

- Collaborated to assess structural integrity using hands-on diagnostic techniques.
- Conducted data collection on building envelope performance for potential renovations.
- Utilized AutoCAD and structural analysis tools to provide restoration plans.
- Presented findings to faculty and stakeholders, enhancing community engagement.
- Documented methodologies for academic reference and publication opportunities.
- Participated in peer review sessions, boosting technical writing skills.

Research Assistant

Academic Research September 2025 - December 2025 Springfield, IL

Assisted with forensic evaluations on historical structures, applying modern techniques to analyze deterioration patterns and develop preservation strategies.

- Engaged advanced structural analysis methods for evaluating old building materials.
- Prepared research papers and presentations for academic conferences.
- Coordinated experiments and maintained project timelines effectively.
- Collected and analyzed data through extensive field inspections.
- Supported presentation of findings at departmental meetings, fostering collaboration.
- Enhanced collaboration by working closely with faculty and peers.

STRENGTHS

Technical Writing
Crafted complex technical documents clearly, satisfying both academic and professional standards. Peers sought guidance regularly.

Team Collaboration
Fostered strong team dynamics across various projects. Built trust and improved collective output which emphasized delivery excellence.

Project Management
Streamlined several processes which led to timely completion of project objectives. Established effectiveness within diverse teams.

Analytical Skills
Applied critical problem-solving skills consistently to diagnose structural issues accurately. Developed innovative solutions based on findings.

Client Engagement
Enhanced stakeholder communications by presenting complex concepts simply. Fostered relationships leading to smoother workflows.

SKILLS

Structural Analysis | AutoCAD | Technical Writing | Communication | Project Management | Data Collection | Presentation Skills | Field Inspections | Sustainable Design

Forensics Engineering

Construction Safety

Team Collaboration

Critical Problem-Solving

Stakeholder Engagement

Structural Simulation

Material Evaluation

LANGUAGES

English — Native

Spanish — Proficient

MY CAREER

- Student Research Engineer at University Project (6 Months)
- Research Assistant at Academic Research (3 Months)
- Structural Engineering Project Developer at Capstone Project (4 Months)

Structural Engineering Project Developer

Capstone Project | January 2025 - May 2025 | Springfield, IL

Led a capstone project focusing on sustainable design and structural efficiency while managing multiple team members and engagements with industry professionals.

- Designed a multi-story building prioritizing the use of sustainable materials.
- Created detailed reports outlining compliance with local regulations.
- Executed structural simulations using SAP2000 for optimal solution derivation.
- Presented outcomes to industry panel, obtaining constructive feedback.
- Built bridges with contractors to understand practical implications of designs.
- Documented lessons learned for improvement on subsequent projects.

LEADERSHIP & AWARDS

- Dean's List, Springfield University (2025)
- First Place, Engineering Design Competition (2025)

CERTIFICATIONS

- Certified in AutoCAD Fundamentals 2025
- OSHA 10-Hour Construction Safety Certification 2025

PROFESSIONAL AFFILIATIONS

- Member, Civil Engineering Society (2025 - Present)
- Volunteer, Habitat for Humanity (2024 - Present)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST