MARCUS DELACROIX

Junior Structural Engineer

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SUMMARY

Junior Structural Engineer with 3 years at Jacobs Engineering contributing to $180M+ in commercial, industrial, and healthcare projects. Led BIM coordination reducing RFIs by 34%, designed steel moment frames for 12-story office building, and mentored 2 interns. EIT licensed; proficient in STAAD.Pro, SAP2000, and Autodesk Revit.

EDUCATION

Bachelor of Science

University of Illinois Urbana-Champaign · Aug 2015 - May 2019 · Champaign, IL

Civil & Structural Engineering · GPA: 3.6

EXPERIENCE

Junior Structural Engineer

Jacobs Engineering · Aug 2021 - Present · Chicago, IL

Designed structural systems for commercial, healthcare, and industrial projects.

- Designed steel moment frame system for $62M 12-story office building; all framing elements passed code review with zero deviations
- Led Revit BIM coordination for $38M hospital addition; reduced RFIs by 34% compared to district average on similar-scale projects
- Performed STAAD.Pro analysis on 6 industrial structures; identified critical load path redundancy improving structural efficiency by 12%
- Mentored 2 engineering interns; both received full-time offers at project completion
- Prepared structural calculations for 14 projects totaling $180M+ in construction value

Graduate Structural Engineer

WSP USA · Jun 2019 - Jul 2021 · Chicago, IL

Supported structural design and analysis for transportation and commercial building projects.

- Assisted with structural design of $24M transit station roof structure; steel weight optimized by 8% vs. preliminary design
- Conducted wind-load analysis per ASCE 7-22 for 3 commercial towers; results incorporated into final structural drawings

SKILLS

STAAD.Pro • **SAP2000** • **Autodesk Revit (BIM)** • **AutoCAD** • **Steel & Concrete Design (AISC/ACI)**
ASCE 7 / IBC Code • **Wind Load Analysis** • **Project Coordination**

CERTIFICATES

Engineering-in-Training (EIT) Certification

National Council of Examiners for Engineering and Surveying (NCEES)

Jun 2019

Certification demonstrating competence in engineering fundamentals

AWARDS

Outstanding Student Award

May 2019

University of Illinois at Urbana-Champaign

Award recognizing academic excellence and contributions to the civil engineering community

LANGUAGES

English

Native

Spanish

Intermediate