

Phoenix Mcguire

Construction and Engineering Intern

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SUMMARY

Current Civil Engineering student eager to apply academic knowledge in a real-world setting. Hands-on experience gained through projects and internships equipped with skills in engineering principles, AutoCAD, and project management tools. Collaborative and committed to delivering quality results, this role presents an opportunity for growth in construction management and operational understanding. Engaging with expert teams, participating in trainings, conducting field tasks, and executing calculations will contribute significantly to professional development while supporting Innovative Construction Solutions' objectives.

EDUCATION

Bachelor of Science in Civil Engineering

University of Maryland 🎓 GPA: 3.5 📅 2026 📍 Baltimore, MD

Coursework: Structural Analysis, Environmental Engineering, Materials Science, Project Management

TECHNICAL SKILLS

- **Project Management Software:** Trello, Asana, MS Project
- **Data Analysis Tools:** Excel, MATLAB, R
- **Design Software:** AutoCAD, SketchUp, Revit
- **Surveying Equipment:** Total Station, GPS Devices, Levels
- **Programming Languages:** Python, Java, C++
- **Networking Technologies:** Ethernet, Wi-Fi, VLAN
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Documentation Standards:** ISO, ASHRAE, ASTM
- **Construction Safety Practices:** OSHA Guidelines, Risk Assessment Protocols, PPE Regulations
- **Presentation Tools:** PowerPoint, Prezi, Canva

SKILLS

- AutoCAD
- Microsoft Excel
- Project Management
- Engineering Calculations
- Team Collaboration
- Data Analysis
- Quality Control
- Field Data Collection
- Research Methodology
- Technical Reporting
- Software Development
- Preventive Maintenance
- Construction Documentation
- Blueprint Interpretation
- Cost Analysis

EXPERIENCE

Construction Intern

University Project 📅 June 2025 - Present 📍 Baltimore, MD

Support a collaboration team focusing on sustainable building designs and engineering practices. Engage actively in creating technical drawings, collecting field data, and developing project reports to communicate progress effectively. This role enhances capabilities in quantity estimation and project planning.

- Collaborated with peers specializing in civil engineering to develop design blueprints for a sustainable building project.
- Utilized AutoCAD for drafting and visualizing structural specifications, ensuring clarity in communication among stakeholders.
- Conducted on-site data collection contributing to analytical assessments while honing precision in engineering calculations.
- Generated detailed documentation summarizing methodologies and outcomes which were presented to faculty and industry professionals alike.
- Participated in bi-weekly team meetings where challenges were addressed collaboratively, enhancing interpersonal communication skills.
- Gained exposure to quantitatively estimating materials and reviewing project scopes required for effective planning.

Research Assistant

Academic Research 📅 September 2024 - May 2025 📍 Baltimore, MD

Assisted key faculty in examining innovative construction materials with a particular focus on their cost-effectiveness and performance metrics. Contributed significantly to data analysis and the preparation of comprehensive reports that enhanced the quality of research outputs.

- Engaged in synthesizing literary resources to direct project trajectories within innovative construction material usages.
- Completed multiple phases of data entry and analysis using Microsoft Excel, culminating in improved research accuracy.
- Presented findings at the university symposium attracting commendations for thoroughness and clarity of presentation.
- Strengthened report writing skills significant in highlighting vital research contributions during faculty reviews.

- Interacted with industry thought leaders providing networking opportunities furthering career aspirations.
- Contributed to collaborative brainstorming sessions aimed at ideating research themes pertaining to material performance evaluation.

Team Member

Hackathon Project 📅 March 2025 📍 Baltimore, MD

Joined a diverse team during a time-constrained competition, aiming to innovate smart construction solutions through IoT technologies. Drove collaboration under pressure to create functional prototypes showcasing tangible improvements in construction efficiency.

- Contributed actively in team brainstorming sessions crafting solutions utilizing cutting-edge technology applicable in construction settings.
- Developed functional software demonstrations linking project efficiency enhancements directly influenced by IoT implementations.
- Achieved recognition from judges indicating both creativity and practical relevance in the engineering approaches taken throughout the hackathon.
- Enhanced crucial teamwork abilities leading discussions towards actionable insights focused on overcoming technical obstacles.
- Cultivated relationships across disciplines fostering multi-dimensional collaborations valuable for future endeavors.
- Advocated for iterative feedback cycles which refined the project output enhancing problem-solving processes comprehensively.

LEADERSHIP & AWARDS

- Dean's List, University of Maryland, 2024
- First Place, Annual Engineering Design Competition, 2025

CERTIFICATIONS

- Microsoft Office Specialist – Excel 📅 2026
- AutoCAD Certified User 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Civil Engineering Society, University of Maryland
- Volunteer, Habitat for Humanity, Baltimore Chapter

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST