

Mohammed Khalil

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EDUCATION

University of Central Florida Orlando, FL
Bachelor of Science in Civil Engineering August 2025
GPA 3.025

Valencia College Orlando, FL
Associate of Arts, Engineering Degree Pathway August 2021
GPA 3.359

Relevant Courses: Intro to Construction, Thermodynamics, Programming C, Structural Analysis, Hydrology, Geotechnical Eng. II, Transportation Analytics, CE Materials, CE Capstone and Urban Systems Design.

EXPERIENCE

Beato Consulting Engineers Orlando, FL
Structural Engineer I October 2025 - Present

- Perform structural inspections for bridges, light poles, and site structures across large-scale resort and campus environments for a major theme park client (Disney).
- Assist in preparing structural inspection reports by documenting deficiencies, corrosion levels, and connection conditions in accordance with applicable engineering standards and internal QA/QC procedures.
- Conduct field surveys using professional equipment (e.g., GPS units, GNSS Receiver, and laser rangefinders) to verify locations, elevations, and structural geometry.
- Evaluate structural components such as anchor bolts, base plates, welds, bolted connections, and concrete plinths, and categorize observed conditions for engineering review.
- Coordinate with senior engineers, project managers, and client representatives to support inspection scheduling, site access, and report deliverables. Support ongoing engineering projects through data organization, photo documentation, and technical coordination between field and office teams.
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H. K. G. Orlando, FL
Business Manager December 2017- October 2025

- Collaborated and communicated efficiently across different cultural backgrounds between coworkers to ensure a healthy and well-balanced work environment on a daily basis.
- Handled customer service responsibilities by utilizing problem-solving & interpersonal skills to ensure overall satisfaction within the restaurant atmosphere.
- Led training processes for incoming hires via acclimating and guiding them through the work culture to build a sufficient team for a successful customer experience.

PROJECTS

UCF - Stormwater System Design for Site Development Summer 2025
• Completed pre- and post-development stormwater analysis for a 68-acre residential and commercial site using TR-55 and ICPR; designed basins, ponds, and drainage systems to meet SJRWMD peak flow and water quality requirements.

UCF - Balsa Wood Arch Bridge Design Summer 2025
• Designed, built, and tested a balsa wood Pratt truss bridge; conducted structural analysis using hand calculations and Visual Analysis software.

UCF - Preliminary Design Traffic Technical Memorandum Spring 2025
• Calculated the Equivalent Single Axle Loads (ESAL) during traffic analysis, to determine how different vehicles damage the pavement at different rates.

UCF - Crash Data at a Traffic Analysis Zone Spring 2025
• Utilized SPSS to model the likelihood of head-on crashes occurring within Traffic Analysis Zones (TAZs) using a binary logistic regression model.

UCF - The Econlockhatchee River Bank Stabilization Fall 2024
• Simulated as a decision maker in an engineering council meeting to discuss stabilization strategies in the Econlockhatchee River to further understand the hydrologic analysis of that project and its effects on the environment.

UCF - Geotechnical Failure in the State of Florida Summer 2024
• Researched Miami's geotechnical challenges with the pedestrian bridge collapse and Hurricane Irma to understand the importance of rigorous engineering practices and preparedness for extreme weather events.

Florida Polytechnic University - Bridge Project Fall 2023
• Built a Pratt truss file folder bridge and evaluated structural performance through tensile tests and digital modeling using West Point Bridge Designer.

SKILLS

Language: English, Arabic

Computer: Experienced in using SolidWorks for engineering drawings, Proficient in Microsoft Office Suite, and Beginner-level knowledge of Synchro, AutoCAD, SPSS, Visual Analysis, StormWise (ICPR), and SAP2000.