

PRAKASH A

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OBJECTIVE

Dedicated Civil Engineering student seeking an internship to apply theoretical knowledge in practical projects, contribute innovative solutions, and gain hands-on experience in infrastructure development

EDUCATION

Bachelor of Technology in Civil Engineering, VIT University

Expected 2025

Relevant Coursework: Strength of Materials, Structural Analysis and Design, and Design of Reinforced Concrete Structures

SKILLS

Technical Skills Autocad, STADD.pro, Revit

Soft Skills Teamwork and Collaboration, Problem-Solving, Critical Thinking

EXPERIENCE

Site Engineer

August 2023 - September 2023

kumar and Kumar Construction

Kodaikanal, Tamil Nadu

- Managed and mentored a team of 20+ construction professionals and subcontractors, fostering a culture of continuous improvement and innovation
- Assisted with STAAD.Pro in structural analysis for luxury villas, gaining foundational knowledge in structural engineering principles.

PROJECTS

Automated Crack Detection and Measurement in Structures. Python-based application that utilizes computer vision and image processing techniques to automatically detect and measure cracks in structures from digital images or video feeds. By leveraging libraries such as OpenCV for image analysis and manipulation, the application can identify crack patterns, calculate their dimensions, and assess structural integrity in real-time

Beam Design Tool. Developed a beam design tool compliant with IS:456-2000 standards, enabling precise and efficient design of reinforced concrete beams. This software automates complex calculations for structural integrity, offering a user-friendly interface for inputting parameters such as dimensions and load conditions. Validated for accuracy, it significantly streamlines the beam design process for engineers, enhancing project efficiency and reliability. ([Try it here](#))

EXTRA-CURRICULAR ACTIVITIES

- Active Design Member of the Indian Concrete Institute for two years, specializing in creating impactful posters and promotional materials for various events and campaigns.

LEADERSHIP

- Project Leader for 'Automated Crack Detection and Measurement in Structures Using Python', guiding a team to develop a pioneering tool for infrastructure assessment with advanced computer vision techniques.