

# Internship at I House Architecture

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## Abstract

Residential architectural design extends beyond floor plan development to include detailed exterior representation and construction documentation. During this semester of my internship, I focused on producing comprehensive architectural drawings for a single-family residence in Wall Township, NJ. Building upon previously developed floor plans, I created full exterior elevations, a roof plan, a rough electrical plan, construction details, and a complete 3D model of the house. A major goal of this internship was not only to contribute to the project but also to learn alongside my mentor and gain a deeper understanding of the architectural design process and the day-to-day responsibilities of professional architects. Through observation and hands-on experience, I developed a stronger understanding of how architectural concepts are transformed into detailed construction documents.

Using AutoCAD Architecture 2013, I developed accurately dimensioned and annotated drawings that communicate the vertical, structural, and aesthetic aspects of the home. These drawings incorporated key architectural elements such as dormers, roofing systems, porches, and stairways. Minor design modifications were made to the floor plans throughout the process to improve functionality and maintain visual consistency with the original design intent.

This phase of the project also required consideration of local building requirements while maintaining compliance with Wall Township regulations. Working primarily independently under the guidance of my mentor, I strengthened my ability to translate two-dimensional plans into detailed construction-ready documentation. This experience enhanced my technical drafting skills, improved my understanding of residential construction standards, and provided deeper insight into professional architectural practice.

## Index Terms

residential architecture, AutoCAD Architecture, architectural elevations, construction documentation, single-family housing, architectural drafting, residential design, roof plans, electrical plans, 3D modeling, building design, construction drawings, architectural internship, technical drafting, building regulations, architectural visualization, architectural documentation, internship, Wall Township