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Received: 01-Nov-2022, Manuscript No. jaet-22-81286; **Editor assigned:** 03-Nov-2022, PreQC No. jaet-22-81286 (PQ); **Reviewed:** 17PreQC NoTw [17]); Receive;

- Visiting the project site to understand exact requirements
- Conducting surveys of the construction site
- Drawing project blueprints
- Designing and developing structures and prototypes
- Analysing, identifying and resolving design problems
- Ensuring the functionality and safety of building systems
- Obtaining environmental reports and work permissions
- Complying with building and environmental regulations
- Training and assisting team members to achieve project objectives
- Coordinating with different vendors regarding materials, devices and equipment
- Collaborating with engineers, architects, consultants and other professionals
- Supervising the construction work to achieve set work goals
- Keeping clients informed and updated on project developments
- Completing the project on schedule

The differences between an architect and an architectural engineer are as follows:

- While architects focus on designing a building as per client requests, architectural engineers focus on the engineering aspects of the building [11].
- Architects consider aesthetic, spatial and functional design principles when drawing structural designs, while architectural engineers give more attention to engineering principles for planning, designing and constructing buildings.
- An architect may aim to create building designs that adhere to client requests, while an architectural engineer may be more concerned about the structural safety and stability of the building. They install electrical, lighting, ventilation, air conditioning and plumbing systems and may even tackle any acoustic planning and energy conservation issues [12].

Architectural engineers apply practical and theoretical knowledge to the engineering design of buildings and building systems. The goal is to engineer high-performance buildings that are sustainable, resilient, economically viable, that ensure the safety, health, comfort, and productivity of occupants.

Uniting scientific principles from structural, mechanical, electrical, lighting, acoustical, and construction engineering, architectural engineers apply practical and theoretical knowledge to the engineering design of buildings and building systems.

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