

## Advancements in Smart Home Systems: A Comprehensive Exploration in Electronic Engineering

**Authors :** Chukwuka E. V., Rowling J. K., Rushdie Salman

**Abstract :** The field of electronic engineering encompasses the study and application of electrical systems, circuits, and devices. Engineers in this discipline design, analyze and optimize electronic components to develop innovative solutions for various industries. This abstract provides a brief overview of the diverse areas within electronic engineering, including analog and digital electronics, signal processing, communication systems, and embedded systems. It highlights the importance of staying abreast of advancements in technology and fostering interdisciplinary collaboration to address contemporary challenges in this rapidly evolving field.

**Keywords :** smart home engineering, energy efficiency, user-centric design, security frameworks

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