Electrical engineering is a branch of engineering that focuses on the study

Edoja Samson and Yomi Igwe

Electrical engineering is a branch of engineering that focuses on the study, design, and application of equipment, devices, and systems that use electricity, electronics, and electromagnetism.It is the foundational technology behind modern society, powering everything from local electrical grids to microchips in smartphones. Core Areas of Electrical Engineering: Electric Power and Energy: Designing power plants, renewable energy systems (like solar and wind), and large-scale transmission grids to deliver electricity safely.Electronics and Circuit Design: Creating and testing micro-circuits, semiconductors, and electronic components used in computers, vehicles, and household appliances.Telecommunications: Building wireless networks, satellite systems, and internet infrastructure to transmit data over long distances.Signal Processing: Analysing and improving audio, video, or sensor data streams for medical imaging and communication protocols. Electrical Engineers vs Electricians: Opinions on the exact overlap differ, but users on Reddit generally note a clear distinction: electrical engineers focus on the theoretical design, math, and invention of new electrical systems, while electricians handle the practical installation, wiring, and physical repair of those systems in the field.