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She is an Associate Professor in Energy Efficiency at the National School of Architecture in Oujda. She is interested in optimizing photovoltaic production, as well as the challenges of energy transition and innovative solutions for improving energy efficiency and management in buildings. She graduated in Electrical Engineering from the National School of Applied Sciences in Oujda in 2010 and continued her research, earning a Ph.D. in Electrical Engineering from Mohammed First University in 2019. She is also the author of the book *A Practical Guide for Simulation and FPGA Implementation of Digital Design*, which explores simulation methods and digital implementation applied to logic circuits.