

Mohamed Amine Hartani: A Profile in Electrical Engineering and Energy Management



Mohamed Amine Hartani, born on June 3, 1993, in Bechar, Algeria, has carved a niche in the field of electrical engineering with a focus on renewable energy systems and DC microgrids. He embarked on his academic journey at Tahri Mohamed University in Bechar, where he obtained his bachelor's degree in electrical engineering in 2015. Hartani's passion for improving energy systems led him to pursue a master's degree in control and monitoring of electrical machines, which he completed in 2017 at the same institution.

His scholarly pursuit did not stop there; Hartani advanced to a Ph.D. in electrical engineering at the University of Ahmad Draia in Adrar, specializing in isolated DC-microgrids powered by renewable resources (RERs), energy storage systems (ESSs), and backup diesel generators. He achieved his doctorate in 2021 and subsequently took on the role of lecturer at the University of Ahmad Draia.

Hartani's professional experience is complemented by various internships in Malaysia, at the airport in Bechar, and at industrial facilities in Algeria, where he gained practical insights into technical services and renewable energies. His academic prowess is evident from his publications in prestigious international journals on topics such as sustainable energy, power management, and hybrid electric vehicle systems.

He continues to contribute to the academic and practical fields of electrical engineering, aiming to enhance energy management systems for remote and island communities, particularly in arid Saharan zones. His work integrates classical and innovative control techniques, focusing on the sustainability and efficiency of energy systems in challenging environments.

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