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SHORT BIO:

Biomedical Engineer | Researcher in Assistive Technology

Michelle Cabrera Herrera is a biomedical engineer driven by a deep commitment to accessibility, research, and the development of technologies that transform human mobility. She graduated from Universidad Iberoamericana Puebla, where she built a multidisciplinary foundation in biomechanics, computer-aided engineering (CAE), and human-computer interfaces.

Guided by the belief that engineering is at its best when it creates opportunities for everyone, Michelle has dedicated her career to solving real-world clinical challenges. Her work spans from designing non-invasive Brain-Computer Interfaces (BCI)—earning her recognition in international student contests—to developing wireless control systems for patients with severe motor disabilities.

As a researcher published by Springer, Michelle’s most recent contributions involve the CAE analysis and prototyping of adaptive sports technology for wheelchair athletes. By integrating rigorous structural analysis with user-centered design, she continues to push the boundaries of medical technology, ensuring that high-precision biomedical devices serve as a bridge to a more inclusive and empowered society.