

Design and implementation of a device to support walking exercises for lower limb rehabilitation

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Abstract: In the current context, rehabilitation for patients after leg surgery or injury faces many difficulties due to a lack of methods and tools. This project aims to design and implement a support device to help patients become autonomous in their walking practice. The objective of the project is to build a support system based on physical and mechanical principles, while applying modern technology to optimize rehabilitation effectiveness. Through theoretical research combined with experimentation, we expect to provide a useful solution for patients, helping to shorten recovery time and improve quality of life.

Keywords: rehabilitation, mobility assistive devices, biotechnology