

MOBILITYREVIVE: AFFORDABLE BRAKE DISC ATTACHMENT FOR MANUAL WHEELCHAIRS

PROBLEM STATEMENT

Current manual wheelchairs present issues of inadequate braking, transfer difficulties, and high costs, severely restricting users' mobility and safety. Our solution introduces detachable brake discs, providing a cost-effective modification suitable for government procurement. This addresses the existing challenges, significantly improving wheelchair usability and safety. By addressing these critical issues, our innovation aims to enhance the overall functionality and accessibility of manual wheelchairs, ensuring a safer and more efficient mobility solution for users.

TEAM MEMBERS



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SOLUTION

Introducing a cost-effective game-changer—a detachable brake disc system seamlessly integrated into manual wheelchair armrests, designed for government sector procurement. Addressing braking issues, transfer difficulties, and budget constraints, this innovation enhances usability and safety. The detachable brake discs, paired with compatible hubs, offer significant improvements without requiring a complete wheelchair overhaul. This user-centric modification sets a new standard in accessible and budget-friendly medical equipment for government procurement, providing a practical and impactful solution to elevate the functionality of existing manual wheelchairs and promote enhanced independence.

