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### Levelling the Playing Field

Carnival games often exclude individuals with cerebral palsy due to challenging physical requirements. To address this, a team from ITE College East created iScore—an accessible version of the classic high-score roller game.

iScore uses motor assistance and push-button controls, allowing those with mobility limitations to play independently and enjoy carnival games.

### Innovators' Inspiration

*“Our team felt that most carnival games were not designed with motor-impaired users in mind, limiting opportunities for shared experiences. iScore was created to change that. Sustainably built and motor-assisted, it enables individuals with cerebral palsy Levels III and IV to participate more independently in a carnival setting. By reimagining a classic game through an inclusive lens, iScore is safe, scalable, and most importantly, opens up opportunities for meaningful play and connection.”*

– Ong Di Jing Roger

### What's So Special?

- A DC motor and linear rail mechanism provide smooth, reliable ball guidance for accurate gameplay.
- Large push buttons are positioned at a wheelchair-friendly height, allowing players with limited hand mobility to navigate and control the ball via simple left-right inputs.
- An automatic solenoid release launches the ball after 40 seconds to maintain game flow, with a manual override for players who need more time to guide the ball into position.
- Built with a durable plywood structure and modular components, the device is portable and suitable for repeated community use.
- iScore clinched first place at the Singtel x LionsForge Inclusive Hackathon 2025 and was later showcased at the Singtel Carnival 2025, where it was well received by participants.