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Taiwan develops TeleRehabilitation system providing comprehensive training and tools

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LongGood, Taiwan's first rehabilitation software development company enables remote patient monitoring using only one motion sensor per patient, which is deployed in patient homes



Hospitals and healthcare systems across the world are looking at telehealth strategies to connect with patients in remote locations. Taiwan's first rehabilitation software development company, 'LongGood' has developed a TeleRehabilitation system to help hospitals deliver rehabilitation training and monitor patient progress remotely using only one motion sensor per patient, which is deployed in patient homes. LongGood was selected by Taiwan Tech Arena (TTA) as one of the 100 featured Taiwanese startups showcased at CES 2021.

"We have developed rehabilitation training programs and physical fitness assessment tools that allow patients to receive high-quality intervention services anytime, anywhere. Our system is designed with medical professionals and has been used extensively in many medical centers and related institutions. It not only increases patients' motivation in training but also saves lots of time for both therapists and patients," said Ray Chen, CEO of LongGood.

Leveraging Cloud Technology to Its Advantage

Combined with a cloud platform that generates real-time data, LongGood's rehabilitation system allows medical practitioners to monitor patients' training performances and arrange suitable training based on individual patient needs.

Using the LongGood platform, therapists can arrange personalized training remotely based on patient needs. LongGood Cloud provides over 100 gamified training programs that allow medical practitioners to design personalized training courses and assign these to the corresponding patients. Training results are visualized, allowing medical practitioners to easily track their patients' training progress. Furthermore, patients and their families are better able to understand the results of the interventions.

LongGood systems also save time, as they allow medical practitioners to manage multiple cases more efficiently.

The company also released "GaitBest," a gait analysis tool. "Different from portable or inch-by-inch gait analysis, LongGood provides a simple and fast solution. You only have to stand in front of the camera and walk forward for 5 meters. The system will immediately analyze the spatiotemporal parameters, saving lots of time," notes LongGood Product Manager Meng-Cheh Shih, who worked as a physical therapist prior to joining LongGood.

As the company claims, LongGood's systems are used in many first-tier medical centers, including Tri-Service General Hospital, Taipei Tzu Chi Hospital, Taipei Veterans General Hospital, Taipei Medical University Hospital, Changhua Christian Hospital, Ditmanson Medical Foundation Chia-Yi Christian Hospital, and multiple Taipei District Health Center locations (Daan, Zhongshan, Datong, Wanhua), among others.

Ray Chen founded LONGGOOD MEDITECH in 2011 to provide comprehensive rehabilitation training and assessment tools. LongGood has received many citations and awards, including the 2019 HQIC award, 2018 2 SNQ Award with Acute Stroke Patient treatment @TSGH, and 2016 Grant Recipient, Taiwan Innovation and Entrepreneurship Center, Ministry of Science and Technology, Taiwan, among others