

Who we are?

HoustonBionics is revolutionizing neurorehabilitation through the development of advanced exoskeletal systems. Committed to supporting stroke survivors in their journey towards improved mobility, we have created the ExoRehab X, an innovative at-home therapy device. By harnessing years of research, cultivated in Texas Medical Center, and leveraging stroke survivors' feedback, we aim to provide convenient and effective means of continuing occupational therapy, ultimately enhancing recovery process.

Regain your independence

1- First FDA-listed/registered complete upper-extremity neurorehabilitation platform at-home

ExoRehabX gamifies the training to promote high repetition self-initiated, isolated, active arm movement therapy on five upper-extremity joints*. Exoskeletal structure makes sure there is no compensated movements and enables survivors to don/doff without any supervision.



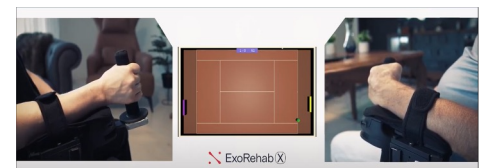
2- Gamified Training for High Repetition, and Better Results

AI powered games are designed to progressively challenge the user by actively learning the user's capability. The resulting training regimen keeps the user engaged, and highly motivated. Visual biofeedback provides high repetition to trigger neuroplasticity.



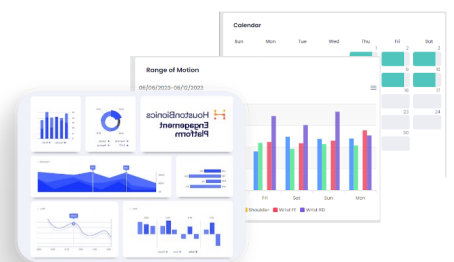
3- Portal to enable survivors engaged with the broader community with no borders

A completely unique training experience with multiplayer platform that allows fellow stroke survivors train together and push each other forward on the path to recovery.



4- Reporting and Remote Monitoring

ExoRehabX uses its onboard sensors to measure survivor's performance and provides reports with easy-to-understand metrics to both survivors and care providers.



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Clinically Proven Results

Chronic stroke survivors achieved on average **2.96 times** higher results on the capability of carrying out activities of daily living compared to controlled group which received conventional therapy. Also, in conventional therapy average repetition number is 53 (95% CI=20-44) (Lang et al.), with ExoRehab X up to **300 isolated repetitions** observed in a clinical study during the same time period.

*Instrumented Physiological Movements

- Shoulder flexion-extension**
- Elbow flexion-extension**
- Forearm pronation-supination**
- Wrist ulnar-radial deviation**
- Wrist flexion-extension**

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