

Introduction to Neurosensing

In the past we have featured neurotechnology devices, therapies and treatments that provide function or enhance the abilities of the body. In this issue, we will explore a different segment of the neurotechnology field, Neurosensing. The unique feature of this segment of technology is the ability to monitor or "view" the nervous system. In medical practice, these devices can aid a clinician to a more informed diagnosis, serve as a means to customize treatments or provide the ability to interact with other technology. It is the third smallest segment of neurotechnology but is forecasted to be a \$1.2 billion business by 2012. Neurosensing includes a wide variety of applications, including EEG & EMG, brain state analysis and brain-computer interfaces. In this newsletter, we will introduce some systems for monitoring the nervous system, for analyzing movement disorders and for interacting with other technologies.

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Personal Experiences: Meet Erik Ramsey

At age sixteen, Erik was an average teenager. He worked a part-time job, loved hard rock music and enjoyed hanging out with his friends. One car accident changed Erik and the Ramsey family. While driving home from a movie, Erik and his friend were struck by a minivan. Firefighters on the scene had to use the Jaws of Life to get Erik out of the car. Rushed to the hospital, Erik lay in the intensive-care unit. He was awake but unresponsive; a blood clot formed in a part of his brain stem, causing a stroke. As a result of this brain stem stroke, Erik has a rare but permanent condition known as locked-in syndrome.

Read about his story and experiences with neurotechnology by clicking [here](#) to go to the second page of our newsletter.

Resources & Updates

Featuring resources of technologies used for neurosensing including links to websites.

Featured Article



Educate: Making Sense of Neurosensing

When we think of sensation, the common 5 senses of the human body come to mind: vision, audio, touch, taste and smell. When it comes to neurotechnology, sensing can take a different form. It can be used to monitor, to diagnosis or to provide closed-loop systems with other devices. In layman's terms, neurosensing is technology that monitors or provides a "view" into the human nervous system.

Let's explore the many options of neurotechnology for sensing by [clicking here](#)

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Plus, updates in the world of neurotechnology, this section highlights new devices, therapies, clinical trials and events.

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Neurotechnology Education Series

The Neurotechnology Education Series is designed to build awareness and understanding of neurotechnology among people who have impairments resulting from neurological disorders and diseases as well as caregivers and medical professionals. See where we will be this fall. Learn more on our website by [clicking here](#).

Neurotech Network* is a non-profit organization dedicated to education and information dissemination regarding neurotechnologies for person with impairments. We do not rate, endorse, prescribe or recommend products, procedures or services. What we do is give you information to make better decisions. This is how we help people regain life through neurotechnology.

Enjoy our newsletter and other resources.

Sincerely,

Jennifer French
Neurotech Network

**This is the Society to Increase Mobility, dba as Neurotech Network.*

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