

The Billings Gazette



Sazette Computing om Nelson

now have the upper hand ob hunters

some leverage. and that means job-hunters have America. Times are better now. read about massive layoffs in week went by when you didn' A few years ago, hardly a

employed in are gamuly graduation from coltell me they to hear them ege. I can't wait nave two daughters homing in on That's good news for me. I

situation, tell that person about "The EmploymentSpot" at needs a job or who might want to improve his or her employment If you know of somebody who

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Electronics that help impaired people will computers to work may soon be able to help people walk

By WARREN KING The Scattle Times

severely impaired patients to "will" when implanted in the brain allows and other body parts. may someday help them move limbs a computer to speak for them. It developed an electronic device that SEATTLE — Scientists have

ken words or phrases. cursor, which in turn activates spotric impulses to move a computer the device harnesses brain cells' elec-Called a neurotrophic electrode,

replacement therapy for whatever It's 'Star Wars' stuff ... We see it as Bakay, who was presenting his **Emory University scientist Roy** has caused a (physical) loss," said "This is right on the cutting edge

> blood flow increases and the brain cells "fire," or conduct impulses. example, the MRI shows the ments. When the patient thinks ing (MRI) to learn precisely the through magnetic-resonance imagabout moving an arm or hand, for areas that control muscle moveincreased activity in certain areas:

cone about the size of a ballpoint the neurotrophic electrode, a glass ed to facilitate vertical and horizontal movements of the cursor. the car. I wo electrodes are implant skull and into the cortex just above pen tip that is implanted through the The key device in the system is

of the cortex to grow into the device cells inside the cone stimulate cells and nerve tissue from the leg. Nerve The cone contains a gold wire

for whatever has caused as replacement therapy Wars' stuff. ... We see it cutting edge. It's 'Star This is right on the a (physical) loss.

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but don't know how to handle the and much more. write resumes, write cover letters tions, ask questions of your own how to dress, answer tough quesnevitable interview, you are in uck. This site provides tips on

Sui teate as a fruit basket with related at the site: "We like to see don't get this real-life question for the perfect job, I hope you von be in this basket?" another. Which piece of built will ach member completan ning one When you get that interview

a great deal to offer job-seekers This is a top-notch site that has

To fire or not to fire?

sion. If you are undecided, the ment tasks is firing an employee. Resource Center's home page. right side of The Business http://morebusiness.com might held you make the right decision. Hick on 'Interactive Quiz' on the The first step is making the deci-Keep or Fire" questlomnage at One of the toughest manage

of firing, you are advised to read damage if may cause. to protect yourselt from the legal about wrongful discharge and how If the test comes out in favor

the power to fire me that, as the myself as if I were my boss. I most evaluation says: 'Neep an eye on modestly say to those who have this person. Someone will try to In all seriousness, corplexees who hire him or her away from you. would like an employer's view of I took the test, evaluating

THE INTERNET REFERENCE

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WILLIAM STRUCTURE

Surgeons. More than 2,000 neurosurgeons of Neurological research Wednesday to the Congress meeting in Scattle are attending the

man of the neurothis week said the technology. at Emory University. surgery department called cognitive enginow, it is being tested move limbs or prosday be used to help neering, could somein patients with the thetic devices. For paralyzed patients ments, including the inability to speak and most severe impair-Bakay, vice chair-

move their eyes. More than

(ichrig's disease. Most can think injuries and illnesses such as Lou more are impaired from spinal-cord year suffer strokes and thousands 200.6%に入事を16.30でき quite clearly, but many are severely municate adequately. nampered by their inability to com-

system they devised uses a combinatheir first human experiments. The sive research on monkeys before Philip Kennedy, conducted extention of the brain's most basic func-Bakay and his Emory colleague

Before the device is implanted, physicians first examine the brain tions and space-age electronics.

faster and louder. control the level of the neuhive; when the patient sounds like a beecells, called neu-rons. The activity ing of the brain listens to the firneurotophic how It tem is turned electrode sys-When the

is a far more complex system than the computers that read ron firing with his thoughts lyzed patients. about different movements: he eye movements of parathe buzzing becomes The patient learns to thinks about movement,

example, thinking about moving the of movement for each patient. For trial and error how to tailor thoughts and patients have learned through move up and down for one patient. hand and foot may make the cursor The Emory University scientists

the cursor on the speech icon, so we had to reprogram the system," said Bakay, who has been working on the At first it was difficult to stop

duce phrases such as "I am thirsty" and "turn the light on" and "see you later. Nice talking to you. Pointing to different icons pro-

between the cells. the impulses

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Emory Univers

Once the implan

is made, the skull is er for each implant go through it. A closed and no wires sit in slight indentareceiver and amplifi correct signals for processor filters the tions in the top of coil called a "smart removable induction baseball-cap-sized. the skult. A signal tem is powered by a he cursor. The syshe patient to move

of the head.

project for more than eight years.

electrode," Bakay "It produces a

little brain inside the

to do this and we learned a lot about the basic principles of this from her." lateral sclerosis). "She really wanted implants. The have had the patients Lou Gehrig's disease (amyotrophic old woman who eventually died of irst was a 52-year-Bakay said.

usual government funding at first; he colleagues proved the system viable. futuristic that he couldn't secure the research with three more patients. the National Institutes of Health for Veterans Affairs. After he and his he received a research grant from ga money instead from Emory (miversity and the Department of Bakay said the research was so

cen" that sits on top

include trauma victims who have lost of patients, Bakay said. These tial for helping many different kinds lost their voices. As the technology speaking will become more and improves, controlling movement or imbs and cancer patients who have Cognitive engineering has poten-

improve people's fives," Bakay said. more automatic for patients, he said "We hope that it can really



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