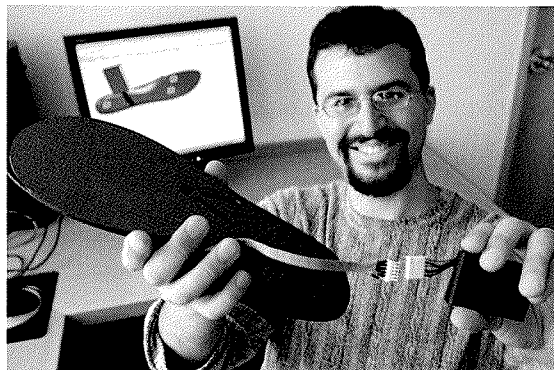


1 Grammar in the Real World

A Can you think of three recent medical inventions? Read the article from a science magazine. Which invention do you think is the most interesting?

Medical Breakthroughs

Some medical problems need engineers, not doctors. Technology **can** often solve problems when doctors alone **can't** help. Here are some examples of medical
5 breakthroughs¹ from the world of engineering.



The "ishoe"

Often when astronauts return from space, they **are not able to** balance.² MIT student Erez Lieberman invented the
10 "ishoe" to deal with this problem. The ishoe

is a pad that goes inside a shoe and uses sensors³ to send information about balance to a computer or cell phone. NASA scientists use this information to help the astronauts recover their balance. Lieberman **could**
15 see that his invention had other uses, for example, diagnosing⁴ balance problems in elderly people.

The Autonomous Wheelchair

In the future, people **will be able to** tell their wheelchairs where they want to go.
20 The Autonomous Wheelchair **can** learn to recognize its environment by listening to its user's instructions. In addition, it uses Wi-Fi⁵ to build a map of the person's home.

The Smart Pill

The doctor **can't** always be sure if some
25 people are taking their medication. Now a "smart" pill **can** tell a doctor when a patient last took his or her medication and report on the state of the person's health at the time.

¹**breakthrough:** an important discovery or development that helps to solve a problem | ²**balance:** have weight equally divided so something or someone can stay in one position | ³**sensor:** a device that discovers and reacts to changes in things such as movement, heat, and light | ⁴**diagnose:** recognize the exact disease or condition a person has | ⁵**Wi-Fi:** a method of connecting to the Internet without using wires