Electric green

A new national campaign is under way to pressure manufacturers of electronics to make it easier to recycle their potentially toxic products. B2

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Jeffrey G. Stark, owner of Sensor Products, a small business in Madison, with some of the wide variety of products his company has been contracted to analyze with pressure-mapping technology.

Inriving on pressure

Madison business a a leader in its 'niche'

BY MINHAJ HASSAN

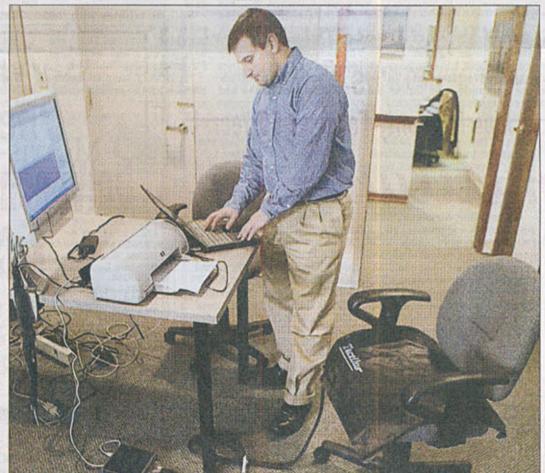
MADISON — Does your bed feel squishy? Do you feel unevenness in your tires and brakes when stopping for a red light? If you are a manufacturer of such products and experience those feelings during the testing process, then Sensor Products Inc. may be the place to reach out.

This successful small busi-ness, located on 300 Madison Ave., specializes in designing sensors, both electronic and manual, that detect comfort levels by using pressure mapping technology. Many of the sensors are made of film, on which pressure is applied. The comfort levels - or points of pressure - are shown on a computer screen.

Sensor Products Inc., said the maps are designed to help the manufacturer to make the best product possible, placing a great emphasis on ergonomics.

"It should show uniformity in different levels of pressure to provide the most comfort," he

The company has worked with many companies that make everyday products. The security seals on packaged foods, the tires, wipers and brakes on the car you drive, the carpet you walk on, the putting green you hit golf balls on,



Jeffrey G. Stark, owner of Jason Blume, project manager at Sensor Products, prepares to put a seat to pressure analysis.

among others, are all products that may have been fine-tuned with sensors provided by Stark's company.

Yes, they even test mattress-es, just like "Lil' Abner" did in the old newspaper funny pages. But there's no lying down on the job at Sensor Products. Old jokes aside, mattress testing, along with the testing of many other important devices, is serious business.

After graduating from busi-

SEE PRESSURE / B2

London called, Sensor Products answered

BY MINHAJ HASSAN

DAILY RECORD

A seat-cushion manufacturer for public transportation used electronic sensors from Sensors Inc. to measure the comfort levels of its seats, and has produced new seats for the London Underground subway cars.

The company, Silicone Foam sure mapping system to test the Division Inc., based in Virginia, produces seats made of silicone

foam.

Edward Claghorn, the company's market development manager, said he learned about Sensors Inc. from a trade show in Dallas attended by Sensors Products Inc. was at in Dallas. After that show, the company decided to use Sensor Products' Tactilus Bodyfitter surface-pres-

SEE LONDON / B2

Pressure

CONTINUED FROM / B1

school at Duke University with a marketing degree, and working briefly in sales at AT&T in Bridgewater, Stark started the company in 1990 from his home in East Hanover. A friend had told him about the manual sensor, known as PressureEx, that was being used by engineers in Japan. However, the sensor was not common in the United States. so Stark decided to market it

in the states. He did so by writing a business plan to the Japanese companies that manufactured and imported the devices across the Pacific. By

1995, when electronic sensors came to the forefront of the industry, Sensors Inc., grew and Stark moved the company to an office in East Hanover.

Now, the company has 25 employees, mostly engineers and designers. In the beginning. Stark said the annual revenues were about \$150,000. Now, the company's revenues

are about \$4.5 million.

'Very niche' Still, in general. industry remains small, primarily catering to manufac-

"It is a very niche field,"

he said. Stark said he's gotten the word out about his company through advertisements in trade journals and attendance at trade shows. Shows

that Sensors Products has attended include ones conducted in New York, Chicago and Las Vegas.

Jason Blume, product manager for Tactilus, the electronic sensor used to measure pressure points in cushions and pillows, said the biggest challenge is to address the different comfort levels each individual of manufacturing and dura-

"It is totally subjective." he said. On the computer, he explained, different colors represent different degrees of pressure, with red being the highest point and black

may have.

being the lowest. The sensors are especially helpful in testing devices such as brake pads. Stark said the evenness of the pad may not always be apparent

London by looking at it. With the application of an electronic sensor, though, it can be

spots, companies make

changes to make the product

better. Stark, though, admits

that finding a balance

between comfort, the costs

bility are sometimes diffi-

those three coalesce." Stark

sensors, his company has

provided devices that are

"It is very easy to understand with the presentations

for product development.

cult to balance.

and pictures."

CONTINUED FROM / B1 made sure the pressure is distributed throughout.

If there are any trouble seat cushions.

He said the company has used other companies to measure comfort and pressure levels in the past, but Sensors Inc. is probably the

Windows-based. "They provide a huge amount of "It's very hard to make data," he said. "It makes it dramatically easier to understand what all

best, given its user-friendly hard-

ware and software, which is

the data means." The benefit is that it makes

Still, he believes with the arcane information understandable. "We are not dealing with brain user-friendly and beneficial surgeons," he said. "We are dealing

> with people like you and me." With the data that was provided with the help of sensors, Claghorn said he was able to a convincing

presentation of why Silicone's seats

were better than other manufactur-

"We were able to prove our product is more comfortable than the competition," he said. "One of the benefits of silicone is that it doesn't require additional solid materials to

make seating more comfortable." As a result of that presentation, the company has built some 22,000 ergonomic seats for it subway cars in the Central Line of the London Underground. They are also producing seat's for the subway's Victoria

An estimated 500,000 commuters ride the London Underground each

Silicone has also worked on train seats for NJ Transit's bilevel cars.

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