

## **Cancer Sensor**

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Brain is part of the central nervous system (CNS) and it can be affected by cancer or cancer treatment. Pain from a tumour pressing on the nerves and cancer treatment can cause damage to the nerves. The number one leading cause of death among cancer in women is breast cancer. Besides affecting the nervous system, breast cancer patients also have a high tendency to develop brain metastases. Breast cancer cell has similar properties with chemical and proteins in brain; it slips undetected into the brain and hide before developing into tumours. It lives and flourishes in the brain and cause brain metastases.

This artefact shows an early detection of minuscule breast cancer. A few methods in breast cancer detection are self-breast exams, mammography, genetic screening, ultrasound, and magnetic resonance imaging. A new method undergoing research investigation is using microwave sensor with an array of microstrip antennas to detect breast cancer. Microwave is transmitted to the breast to detect the scattering signals. The detection is based on different properties between the breast tissue and the cancer cell. The dielectric properties, permittivity and conductivity of healthy and malignant breast tissues are measured over the microwave frequency range.





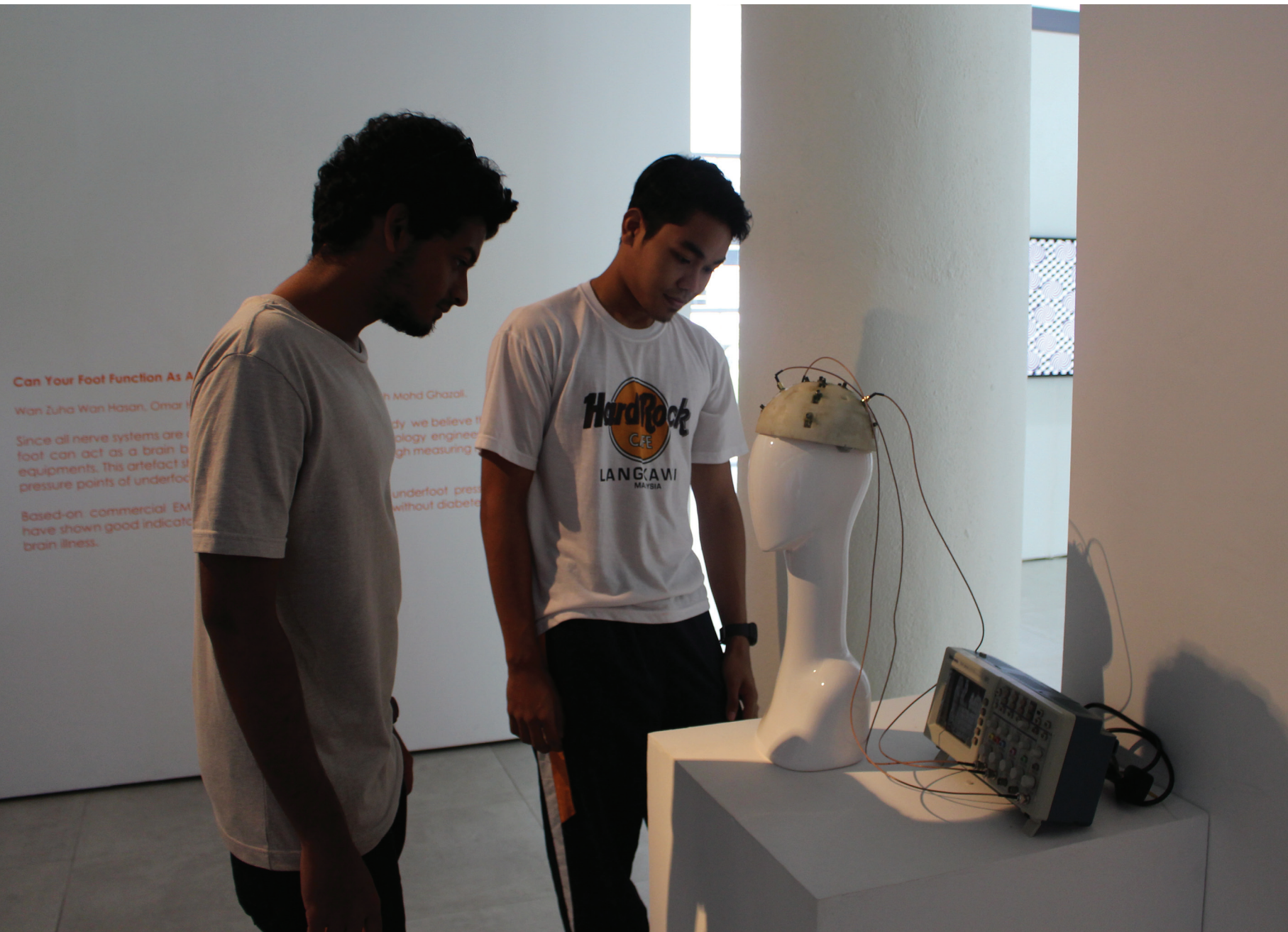


Can As A Brain?

Hussen, Al Sabry and Aina Mardhyah  
connected to all part of human body  
but needs support from high techy  
showed an alternative solution thro  
foot pressure.

EMED System, pressure patterns of  
sensors for a group of people with and





Can Your Foot Function As A  
Wan Zuha Wan Hasan, Omar  
Since all nerve systems are  
foot can act as a brain b  
equipments. This artefact s  
pressure points of underfo  
Based-on commercial EM  
have shown good indicato  
brain illness.

with Mohd Ghazali.  
dy we believe th  
ology engineer  
gh measuring  
underfoot prest  
without diabet