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NUS INDUSTRIAL DESIGNERS' GRADUATE SHOW

Young designers from the National University of Singapore (NUS) have collaborated with industry partners to tackle real-world challenges for their final-year projects.

From a tool to improve a patient's comfort during mammogram screenings to one that can help brew the perfect cup of coffee, the graduating cohort of 32 students

from the Division of Industrial Design (DID) under NUS' College of Design and Engineering presented their works earlier in June at the NUS DID Graduation Show 2024.

The show is the culmination of four years of design education and experiential learning at the college. All the designs are showcased online.

One project is Mr Luke Goh's Mammosense, a high-tech tool that makes patients more comfortable during mammogram screenings.

It was developed by Mr Goh in collaboration with a team of medical professionals from the National University Health System.

Mammosense is powered by a light detection and ranging sensing system called Lidar, which uses

laser pulses to map out an area.

Mr Goh says his background in science, technology, engineering and mathematics helped him develop products that are not only aesthetically pleasing, but also functional and user-centric.

"My mother had a painful experience during her first mammogram, which deterred her from returning for subsequent screenings," he says.

"I envisioned Mammosense to alleviate the pain associated with mammograms. My hope is that this innovation will encourage more individuals, including my mother, to participate in this vital, life-saving screening procedure."

Other design solutions include BrewTrack, a tool that helps coffee enthusiasts master the art of brew-



ing coffee; FallGuard, a fall-detection system for seniors living alone; and Projek Ginjal, a test kit that detects early signs of kidney disease. **Chantal Sajan**
Info: Go to str.sg/44d8Q

Mr Luke Goh (left) with a radiographer at National University Hospital. Mr Goh's Mammosense is a high-tech tool that makes patients comfortable during mammogram screenings.
PHOTO: COURTESY OF LUKE GOH