

**EXCELLENCE IN EDUCATION**

# Making AR dream a reality

TAR UMT mechanical engineering grad develops augmented reality spectacles

**KUALA LUMPUR**

**O**NE young Malaysian engineer is proving just how far curiosity, grit and education can take him.

Lee Han, a mechanical engineering graduate from Tunku Abdul Rahman University of Management and Technology (TAR UMT) has made a mark on the global stage with his invention Frame 1 — a pair of wireless, full high-definition augmented-reality (AR) spectacles.

When studying at TAR UMT, Lee was able to finetune his childhood project — a prototype made out of cardboard and recycled lenses — into Frame 1 and established himself as an entrepreneur in the AR technology space.

His innovation is expected to enter the market this year, targeting early adopters and tech enthusiasts who are looking for the next ground-breaking immersive AR

tech. There are also plans for a global launch.

"The idea for wireless AR glasses came in high school, when I encountered the Microsoft HoloLens.

"Due to its cost, I decided to try and build my own virtual reality (VR) headset using Google Cardboard, which I presented during my high school science fair.

"Since then, I have been obsessed with the idea of merging digital and physical worlds into a sleek, intuitive and untethered device," Lee said.

Studying at TAR UMT equipped Lee with the necessary technical knowledge and honed his ability to conceptualise his idea into a market-ready product.

"I was taught in class to develop a strong technical foundation and problem-solving mindset. The lecturers were very dedicated and ensured that we understood the syllabus, and constantly kept us en-



*Lee Han says studying at TAR UMT gave him a strong technical foundation and problem-solving mindset.* PIC COURTESY OF TAR UMT

gaged via a mix of theoretical and practical applications to help us understand the concepts easier.

"This conducive study environment improved my discipline, analytical skills and critical thinking — traits I believe are important in engineering.

"Via TAR UMT, I also had the opportunity to undergo a three-month internship with the design engineering team at Dyson in Johor. During that time, I was deeply influenced by their innovative approach to product design and development.

"That experience influenced and reshaped how I improved Frame 1," said Lee, who has made over 235 iterations of the product to arrive at the current version.

On top of that, Lee is grateful for the opportunities TAR UMT provided to showcase his innovation via the University's Centre for Business Innovation and Entrepreneurial Ventures (CBIEV), a platform dedicated to support and accelerate students' ideas into impactful ventures.

Through that experience, he pitched his product at the 2025 Nanning International Elite Innovation and Entrepreneurship Compe-

tition Malaysia preliminary round, and Hainan Southeast Asia AI Hardware Battle (HNSE AHB) 2025, which recognised his efforts with the AI Rising Star Award.

"Engaging with local and global industry experts, leaders and entrepreneurs helped build my confidence in Frame 1, and their feedback was very helpful in gauging the potential market and viability of my product.

"I am very happy that I studied at TAR UMT, where students with entrepreneurial dreams are encouraged to develop their passions and provided with the support and resources to grow," said Lee.

To find out more about TAR UMT's mechanical engineering and other engineering and technology programmes, visit its open days on March 14, 15, 28 and 29 at its main campus here or at branches nationwide.

Prospective students can also call +6011-1082 5613 / +6011-1059 7120 or visit [www.tarc.edu.my](http://www.tarc.edu.my) to apply online. Financial aid and merit scholarships are available for qualified students.