Archer Materials
Technology

Archer Materials Limited (ACN: 123 993 233)
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ASX Announcement (ASX: **AXE**) 25 November 2024

Archer receives prototype TMR sensors from foundry partner

Highlights

- Archer has received its first tunnel magnetoresistance ("TMR") sensor prototypes from its foundry partner, MultiDimension Technology ("MDT"), and is now completing characterisation of the prototypes at a local Australian university.
- Archer will use the initial prototype sensors to begin engagement with potential TMR sensor customers and seek to further enhance the TMR sensors performance with customer feedback.
- TMR sensors provide Archer with an earlier path to revenue, as the technology is widely used across many applications including medical devices, data centres, automotive, and internet-of-things.
- Archer will utilise its quantum technology expertise to enhance TMR sensors' performance over time, with the aim of developing market-leading TMR sensors.

Archer Materials Limited ("Archer", the "Company", "ASX: AXE"), a semiconductor company advancing the quantum technology and medical diagnostics industries, has received prototypes of the tunnel magnetoresistance ("TMR") sensors (Image 1) from its foundry partner, MultiDimension Technology ("MDT").

Archer is sending the TMR sensor prototypes to its research partner, an Australian university, for characterisation. The Company will then begin engaging with potential customers to obtain their feedback, to develop and enhance the TMR sensors' performance utilising Archer's deep quantum technology expertise.

TMR sensors are quantum magnetic sensors that are highly sensitive, have high bandwidth, and low power consumption compared to the traditional Hall effect sensors, which currently represent the industry standard. TMR sensors are used for a range of growing applications including data centres, automotive, medical devices, and internet-of-things ("IoT") and consumer electronics.

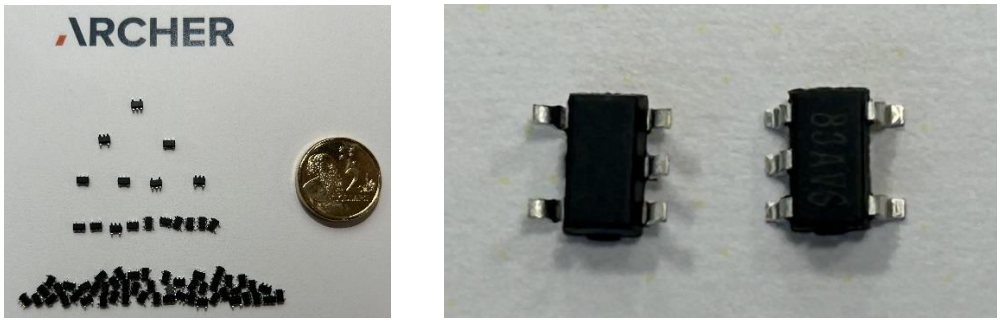

Image 1: Prototype TMR sensors received by Archer from MDT

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Commenting on the TMR sensor prototypes, Greg English, Executive Chair of Archer, said,

"The need to replace traditional sensing technology usage across large industries provides significant opportunity for Archer. Receiving this prototype from MDT is a first step in this process of developing our own TMR sensors, which we are bolstering with Archer's quantum mechanics expertise.

"TMR sensors provide Archer with an opportunity to potentially generate revenue in the next one to two years and establish a market presence sooner, while building a diversified product line, including its quantum computing chip as part of the ^{12}CQ project."

The Board of Archer authorised this announcement to be given to ASX.

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About Archer

Archer is a technology company that operates within the semiconductor industry. The Company is developing advanced semiconductor devices, including chips relevant to quantum computing and medical diagnostics. Archer utilises its global partnerships to develop these technologies for potential deployment and use across multiple industries. www.archerx.com.au