Our technology

A WORLD OF OPPORTUNITIES

Our technology is used in a wide range of applications including ceramic tile decoration, coding, printing graphics for indoor and outdoor signage, labelling and packaging, as well as for Advanced Manufacturing and industrial applications such as Flat Panel Display, Semiconductors and Optics, and 3D Printing.

Advanced Manufacturing

Ceramic Tile Decoration

Coding & Marking

Decorative Laminates

Direct-to-Shape

Graphics

3D Printing

Textiles

Label Printing

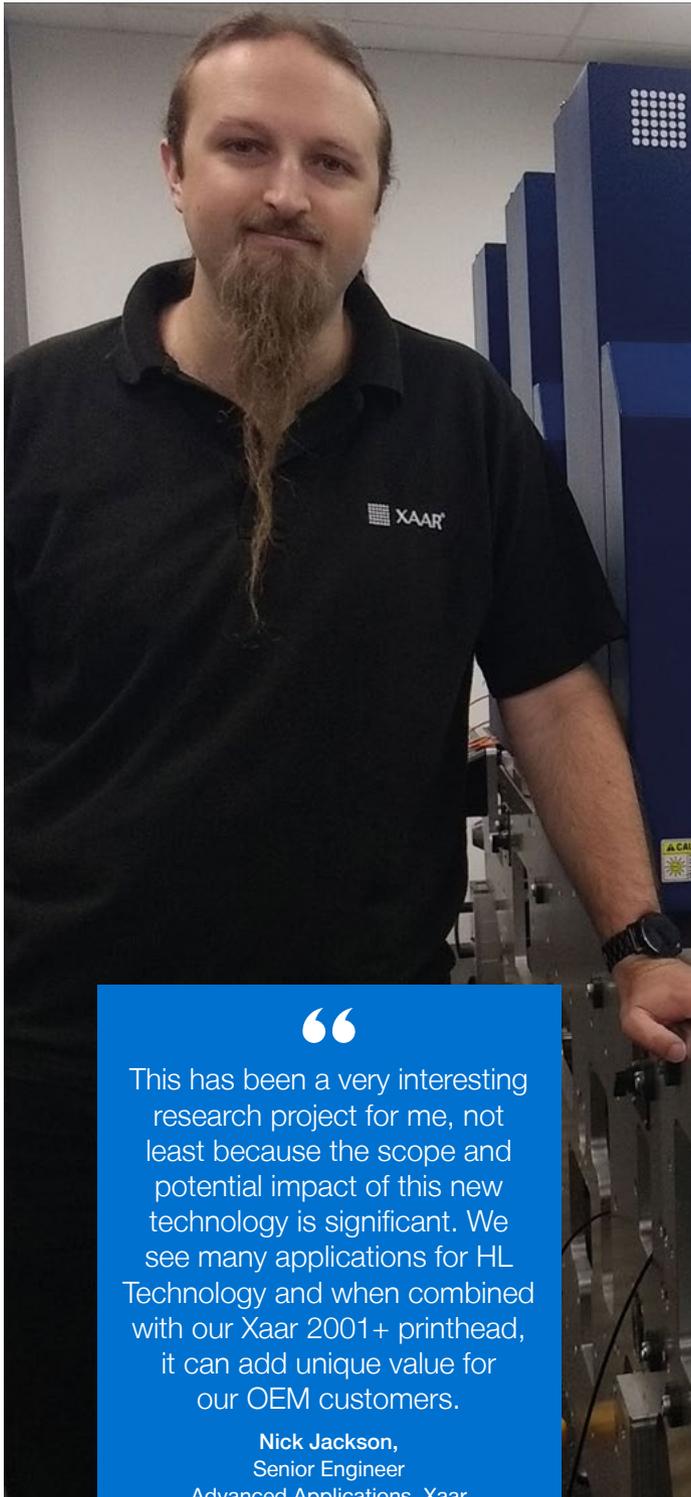**Packaging**

Product Printing

HL Technology the culmination of three years of research

Nick Jackson, Senior Engineer, Advanced Applications, joined the Cambridgeshire-based company in 2008 after graduating from Clare College (Cambridge University) with a Natural Science degree the previous year. For the last three years at Xaar, Nick has been investigating the impact on printhead performance of different electrical signals. HL Technology was borne out of this work.

Q. What is HL Technology used for?
A. HL Technology prints very high levels of UV inks or high build varnish for tactile effects that enhance shelf appeal for a wide range of packaging and labels. Effects possible include tactile varnish, raised foil, warning triangles and braille. HL Technology also achieves extremely high laydown levels for effects on ceramic tiles after decoration, so that gloss, adhesive and metallics can be printed at high line speeds.

Q. Why is HL Technology of interest to Xaar's customers?
A. In order to attract consumers and differentiate their products, more and more suppliers are choosing digital embellishments, be it for packaging, decoration of building materials or general commercial print since research confirms that consumers are willing to pay a premium for printed effects and textures.

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> This has been a very interesting research project for me, not least because the scope and potential impact of this new technology is significant. We see many applications for HL Technology and when combined with our Xaar 2001+ printhead, it can add unique value for our OEM customers.
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> **Nick Jackson,**
> Senior Engineer
> Advanced Applications, Xaar