

DEPLOYABLE STRUCTURES CASE STUDY

COMPANY CASE STUDY:

CONCRETE CANVAS LTD.

BACKGROUND OF COMPANY/PRODUCT

Concrete Canvas was invented in 2004 by Will Crawford (MEng) and Peter Brewin (MEng) while studying at university.

The initial concept was for a rapidly deployable concrete shelter, but this required the development of a new concrete technology.

The new technology showed promise in other applications and has been further developed into a product in its own right.

HOW DOES IT WORK?

Concrete Canvas is a flexible, cement-containing fabric that hardens on contact with water to form a thin, durable, waterproof and fire-resistant concrete layer. Essentially, it's concrete on a roll (shown in the photograph, top right).

APPLICATIONS

Concrete Canvas is used in a variety of ways including ditch lining (shown in the photograph, bottom right), erosion control and building vent walls in mines.

It removes many of the logistical and environmental issues encountered when using more traditional materials.



Concrete Canvas Ltd



Concrete Canvas Ltd

Senghenydd Bedded Ditch near Aber valley in Wales

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OLIVER GIBBS

WHAT INDUSTRY SECTOR ARE YOU BASED IN?

I'm in mechanical engineering. I design and build bespoke machinery for a novel flexible concrete based geotextile called Concrete Canvas.

HOW DID YOU GET THERE?

I graduated with a first class master's in Mechanical Engineering at the University of Nottingham in 2011, after taking the International Baccalaureate at Atlantic College from 2004-2006. I applied for the job a few months out of university and was granted an interview - and it all went from there!

which comes up more than you'd imagine. Working in a small company also means we can make impressive gains in productivity and performance relatively easily compared to a larger company.

LIKES?

I'm an extreme sports enthusiast.

DISLIKES?

Laziness!

WHAT ARE YOUR AIMS FOR THE FUTURE?

To lead a team and work on ever larger engineering projects.

WHAT DOES ENGINEERING MEAN TO YOU?

Engineering changes the world we live in for the better. It enables many of us to live a comfortable and safe life with electricity, water and transport and improves lives as a result. We have a great responsibility as engineers to consider the impact that our work has upon the world and to ensure that this impact remains positive. I believe that engineering has the potential to solve many of the world's current issues.

FAVOURITE PART OF YOUR JOB?

Finding solutions to problems that you never knew existed,



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