66 My work within DRA

has given me a proven

record of project

management. 99

CAREER HISTORY

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# **Defence Evaluation and Research Agency**

KARL PHILLIPS

have found my work with DRA highly has presented a stimulating blend of with customers. Within one very full year I have been involved in a wide variety of assignments, including project managing an extramural contract worth £,150,000. These into the next century. There is also a large component of civilian- targeted work, because our organisation is increasingly participating within the

commercial sector.

rewarding to date - not least because it responsibility, diversity and direct liaison assignments have included work which will help mobility planning for UN peace-keeping tasks

### MOBILITY STUDIES

My academic background is in Mining and Geotechnical Engineering - subjects in which I gained a BSc and a PhD respectively from Cardiff University. After having worked for a couple of companies mainly concerned with driving, I joined DRA at Chertsey, Now, I am a Project Officer within the Land Systems Division providing assistance to the Royal Engineers.

In our organisation, engineering provides the means to overcome obstacles and achieve objectives, whether it's used for military or civilian purposes. For example, our participation in global peacekeeping initiatives places everincreasing demands on equipment and vehicles. They need to be robust enough to deal with a diverse range of harsh terrains, as well as being light enough to be transported

DRA undertakes a great deal of research into developing equipment and vehicles which can perform specified tasks, no matter what the environment or the elements might throw at them - research which often finds a place in civilian life. However, it can also work the

other way. The first project I managed involved testing a commercial product for its military potential.

I am currently developing a computer package which will allow non-specialists to predict the behaviour of a trackway or geotextile surface when vehicles are traversing it. It's a fascinating challenge, which calls on both my numerical modelling and my soil mechanics experience from

### NEW MATERIALS

Within the DRA, we have one of the largest materials research groups in Europe. Our expertise the development of new materials and the identification of more cost-effective production methods for existing polymers, we have been particulate reinforced which we now sell under

Stronger, lighter materials structural engineering. One of their applications within the in the design, manufacture and testing of bridging structures.

High-strength aluminium alloys and advanced fibre reinforced plastics have played a major part in this work, and DRA bridge research has been connected with some of the largest carbon fibre structures

My personal involvement in this field has been to carry out bridge corrosion analysis and develop finite element carbon fibre bridge models. These projects gave an ideal overview of some of the work within the Land Systems Division and ran concurrently with my training

# MARKETABLE

In addition to on-the-job instruction - such as the computer training I was given to support my numerical and soil mechanics work - I have gained useful commercial skills. After all, we have highly marketable expertise... we have to make sure we make the most

Now, I have a proven record the experience of dealing with