

equations, for example $F = kx$ where 'F' is the force applied, 'k' is element stiffness, and 'x' is displacement. This equation is used for statics within FEA.

The collaborative project, called The Latitude Project, was used to investigate fuel economy benefits derived from testing diesel technologies for inclusion on future vehicle ~~program~~ programmes. The project had a total value of £12.6 million with £6.3 million of which was funded by a grant.

The project was used to reduce the mass of the engine block which in turn reduced total vehicle mass and therefore its emissions. This was achievable by the collaboration between different companies. For example, Ricardo had analysis ^{software} programmes.

I found it interesting how they used Topology to determine the optimal thickness of material needed for each part ~~at~~ within the engine block.

It was also interesting to hear how the collaboration worked, and the difficulties which came with it. Such as practical challenges like relationships between companies and timings to more technical challenges ~~like~~ they encountered like optimising heat transfer.

I was very pleased to have ~~intended~~ attended Frank's lecture. It gave me many insights within the industry which will help me when I come to graduating from the university. I was very interested on what he had to say about working in a collaborative project, and I will think of this if I ever get a chance to do something similar.