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energyengineering

power for the future

Device deployment
Reliably informed



Professional approach
Career development

Making a difference
All about allocation

Sustainable transport
Technology on show

Modelling technology helps to create next generation of low carbon vehicles

Claytex will be showcasing Dymola at LCV 2014.

A low carbon future requires a fundamental reassessment of how companies approach vehicle engineering - from advanced battery and motor technology for efficient propulsion, lightweight materials and aerodynamics to minimize lost energy, through to intelligent control systems for efficient operation.

Dymola is the fast way to better products for the automotive, aerospace, defence, industrial machinery and energy industries.

Dymola is a world leading multi-domain modelling and simulation tool that supports the Modelica modelling language. It includes a wide range of model libraries including engines, transmissions, drivelines, vehicle dynamics, electric drives, control systems, hydraulics and air-conditioning. Dymola provides the user with access

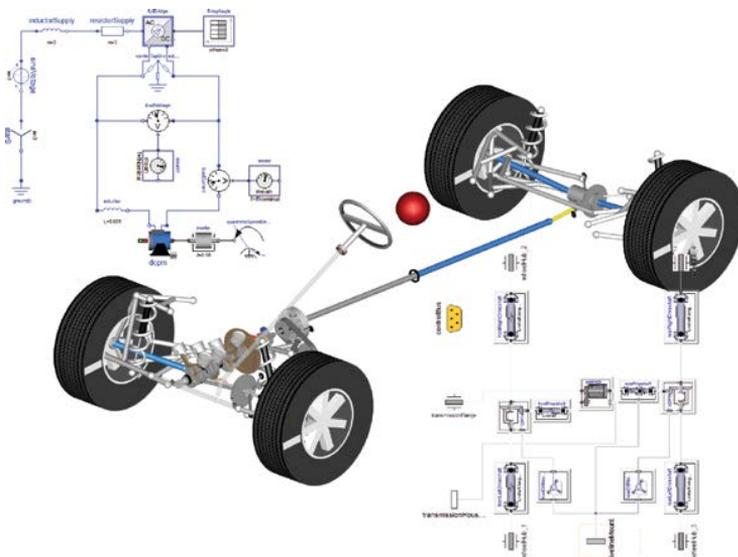
to the model equations and the freedom to add their own models. It uses a physical component orientated modelling method that provides the engineer with a convenient way to create the schematic of a multi-domain system. This schematic is then transformed into efficient simulation code using symbolic manipulation that can target desktop and HIL environments.

Dymola enables engineers to visualise a joined up, seamless understanding of vehicle architecture and dynamics, and allows them to simulate everything from control system design to driveability. This enables teams to investigate and optimise every aspect of the system before physically building a vehicle, drastically reducing time to market.

Claytex is the distributor of Dymola software in the UK, Belgium, Luxembourg, Netherlands, Ireland and South Africa, and offers training and specialist simulation consultancy services to the automotive, aerospace and energy industries.

Established in 1998, Claytex partners with many of the world's leading motor racing teams.

www.claytex.com



Enabling the vehicles of the future

Coventry has been at the heart of the transport sector for over 160 years: from the early days of bicycle, motorbike and car production to its current position at the heart of the UK's growing low carbon vehicle industry.

Indeed, Coventry University remains central to these developments, building on a tradition of excellence in transport design & engineering, by undertaking cutting edge research driven by a multi-disciplinary academic team, all of whom are experts in their fields. Particular areas of expertise include automotive design, aerodynamics, hydrogen fuelling, lightweight structures, control theory and safety as well as expertise in transport policy and behavioural analysis. Alongside leading industry and research partners, we have built programmes helping to test, evaluate and design the vehicles and associated systems required to establish cleaner and more intelligent vehicles as a viable alternative to traditional modes of transport for the challenges of tomorrow.

For more information about the about the Low Carbon Vehicles capability at Coventry University come see us on the stand C2-24

www.coventry.ac.uk

