THE MONTHLY INSIDER

TruckCase

TruckCase, an in-house plug-and-play vehicle control unit with pre-flashed software, has been launched. It is an off-the-shelf controller ready to be installed in electric trucks. The TruckCase comes with black-boxed software that interfaces with several peripherals (listed below) and a free calibration tool.

The TruckCase currently supports the following E/E components:

- Battery Management System
- On-board Charger
- DC-DC Converter
- Drive Inverter
- A/C Compressor
- Heater
- Cooling Pump
- Power Steering Pump Inverter
- Relay/Fuse Box
- Display

Want to know which off-the-shelf peripheral units our software supports? Visit https://dorleco.com/truckcase/ to learn more. If you don't see a suitable component in the list, get in touch with us for a customized black-box solution by writing to info@dorleco.com.

Newsletter Highlights

TruckCase

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Model-It-Yourself: ADAS

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SimEV 2.0

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Automotive CAN Protocol Bootcamp

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Full-time Openings

Model-It-Yourself (MIY): ADAS

We have a new upcoming online course in the Dorleco Model It Yourself series focusing on autonomous vehicle technology by the name - Model-It-Yourself (MIY): ADAS.

This course contains step-by-step instructions on how to model systems for autonomous vehicles. It presents an overview of designing and testing scenarios for understanding autonomous vehicles concepts such as perception, localization, tracking, prediction, planning, and control. It also includes a pathway for any engineer to enter the world of self-driving cars and discusses the various domains one can work in.

The MIY is a self-paced learning program, that provides a step-by-step instruction set that guides you through the fundamentals of model-based development. The MIY series is available in two domains,
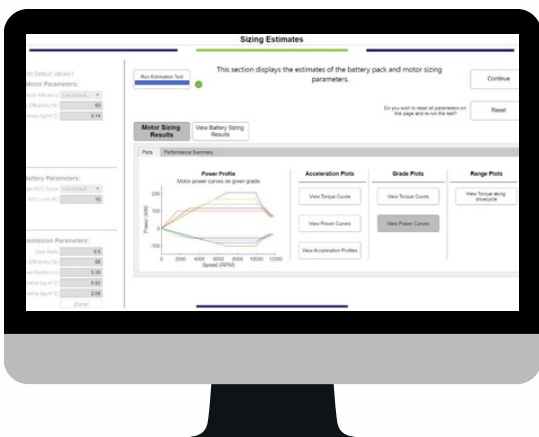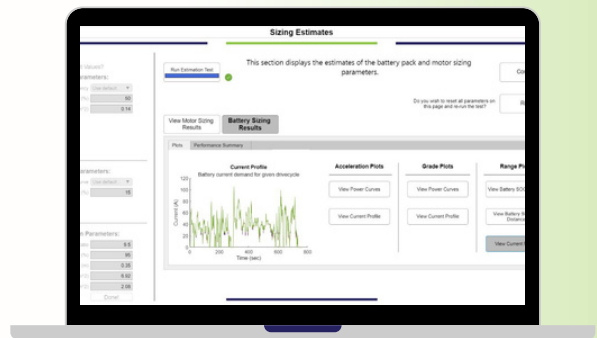· E-Mobility Controls
· ADAS (upcoming)

Give your Controls Engineering career a head-start with the 'Model It Yourself' series. Click here for more details or reach out to us at info@dorleco.com.

SimEV 2.0

Previously, we revealed that our engineers are working on SimEV 2.0, an enhanced version of SimEV1.1.

In this version, expect advanced features such as,
- Multiple workflows
- Saving user data for future use
- Ease of accessibility

And have you not tried SimEV 1.1 yet? What are you waiting for? It's FREE!

Head to our website and get your software now. Perform powertrain simulations, generate suitable component sizes, and get off-the-shelf motor and battery recommendations.

Your feedback and suggestions are welcome. Please email us at info@dorleco.com.

Automotive CAN Protocol Bootcamp

Last time around, we mentioned that we will be introducing Bootcamps in various fields such as Autonomous Vehicles and CAN Communications. It is now time for an 'Automotive CAN Protocol Bootcamp'. Scheduled from 6th March to 10th March 2023, this will be a live training program with a total duration of 10 hours (2 hours/day) conducted in online mode.

Ideal for beginners in the automotive controller area network (CAN) field, this course focuses on how CAN works in electric and autonomous vehicles, from the basics of developing the CAN application software using MBD methodology, decoding CAN bus data using DBC files, and real-time CAN-based calibration.

Register today on our website.

Some exciting news for people looking to kickstart their careers in vehicle communications or autonomous vehicles areas: Dorleco is starting the next batch of the 'Drive-By-Wire Bootcamp' and 'Autonomous Vehicle MBSE Bootcamp' in the coming months. Click here for more information on the bootcamps.

Here's what you will learn:
- Introduction to CAN 2.0B specifications
- Understanding DBC files and decoding the CAN bus data
- Introduction to Raptor and calibration over CAN for Bosch ECU
- Serial decoding of CAN messages using a USB oscilloscope
- Developing CAN application software for Dorleco VCU in MATLAB Simulink

Here is what you get along with the live sessions:
- Simulink model
- Reference materials
- IEEE certificate (subject to completion of the final quiz)

Full-time Openings

We are looking to fill the following positions in our Farmington Hills (USA) and Pune (IND) facilities. Details of the roles have been specified on our careers page: https://dorleco.com/career/.

To apply, send your resumes to hcarter@dorleco.com (USA) or samruta@dorleco.com (IND) with the position title in the subject.

Job Titles
- Business Development Manager
- System Test Engineer
- Systems Engineer (e-powertrain)
- Test Tool Developer
- Systems Engineer (ADAS)
- Functional Safety Engineer
- MBD Software Engineer
- HIL Engineer
- ECU – Cybersecurity Engineer

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