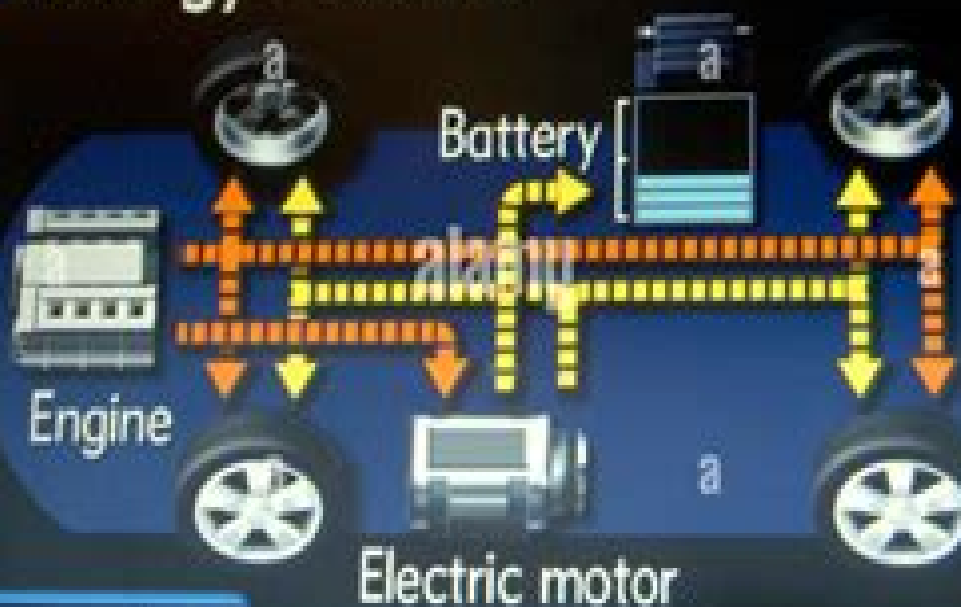


## Energy monitor



Consumption

# Ecocar 2000 Hybrid Electric Vehicle Dashboard Display

**Margaret Jane Yatsko**



## **Ecocar 2000 Hybrid Electric Vehicle Dashboard Display:**

Development and Implementation of a Fault Mitigating Control System for a Biodiesel Plug-in Hybrid Electric Vehicle for the EcoCar Sean C. Carter, 2011 Testing and evaluation plans are required more than ever and are constantly being updated and implemented in today's automotive production standards. The paper discusses the development and implementation of the control system through the use of systems engineering of a hybrid vehicle as part of a competition called EcoCar The NeXt Challenge Leaf iv

**Hybrid Vehicle Supervisory Controller Development Process to Minimize Emissions and Fuel Consumption in EcoCAR 2** Trevor Crain, 2014 This thesis presents the design process used to create and validate a hybrid vehicle supervisory control system for a plug-in hybrid electric vehicle in the EcoCAR 2 competition. The vehicle utilized a Parallel through the Road hybrid architecture with a B20 biodiesel engine powered front axle and electric motor driven rear axle. The primary goal of this work is to present a selection of the processes used by the controls team throughout the competition to define the control system requirements and platforms, model the components of the vehicle and validate each model and estimate the effects of various control system strategies and parameters on overall vehicle performance. The advantages of using a version controlled Simulink model for supervisory controller development are discussed along with an explanation of the software architecture and primary hybrid control modes. The models developed to simulate the primary drivetrain components are detailed in addition to their parameterization and validation testing methods. The final chapter presents an analysis on dynamometer test data used to quantify the effects of various controller parameters and strategies on the results of the Emissions and Energy Consumption EEC event's dynamic drive testing. The electrical energy consumption of the vehicle during charge depleting mode testing is used to select a state of charge value for transitioning to charge sustaining mode. Various implementations of engine stop/start are also analyzed, showing the potential for a 3.8% improvement in B20 fuel consumption over the course of the City/Highway EEC drive cycle.

**Development of a Hybrid Vehicle Control System** Margaret Jane Yatsko, 2016 The EcoCAR 3 project is a four-year competition sponsored by General Motors and the U.S. Department of Energy, challenging 16 university teams to re-engineer a 2016 Chevrolet Camaro to be a performance hybrid electric vehicle. The Ohio State University designed a parallel hybrid electric vehicle with a 0 to 60 mph acceleration goal of 5.6 seconds and a 44-mile all-electric range. Before the performance and emissions goals can be met, the team must fully mechanically and electrically integrate their hybrid vehicle architecture. Concurrently to the vehicle integration, the controls team developed the basic vehicle controls that would be required to meet the goals for the second year of the competition. The controls development started with fully defining the vehicle controls requirements and then evaluating which requirements would be met in each part of the development process. The controls validation occurred using a team-developed vehicle model in both the Software and Hardware-in-the-Loop environments. The main focus for this part of the development was defining and implementing the basic controls such as controller communication and vehicle startup.

which are critical to eventually having a fully functional vehicle With the Year 2 controls validated in the HIL environment a vehicle implementation plan was developed to be implemented and validated by May of 2016 The full controls development plan that was developed to meet the high level team goals included both performance and efficiency modes that will be implemented and validated in Year 3 and 4 of the EcoCAR 3 project

Uncover the mysteries within Crafted by is enigmatic creation, Discover the Intrigue in **Ecocar 2000 Hybrid Electric Vehicle Dashboard Display** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( PDF Size: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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