

Thorsten Wolter

**Entwurf und Entwicklung einer
universellen und übertragbaren
Kalibriermethodik am Beispiel einer
Verbrennungsmotorsteuerung**

Bachelorarbeit

Entwicklung Universellen Bertragbaren Kalibriermethodik Verbrennungsmotorsteuerung

Thorsten Wolter



Entwicklung Universellen Bertragbaren Kalibriermethodik Verbrennungsmotorsteuerung:

Entwurf und Entwicklung einer universellen und übertragbaren Kalibriermethodik am Beispiel einer Verbrennungsmotorsteuerung Thorsten Wolter, 2015-06-03 Bachelorarbeit aus dem Jahr 2013 im Fachbereich Ingenieurwissenschaften Fahrzeugtechnik Note 1,0 Rheinisch Westfälische Technische Hochschule Aachen VKA Sprache Deutsch Abstract Bedingt durch den Wettbewerbsdruck in der Automobilindustrie und den daraus resultierenden Forderungen nach einer Reduktion von Entwicklungskosten und Entwicklungszeiten ist es zunehmend wichtiger den Applikationsprozess effizienter zu gestalten. Ein Aspekt in diesem Zusammenhang ist das Bestreben die Applikationszeiten zu verringern. Daher wird versucht möglichst viele Applikationsaufgaben auf den Prüfstand oder in frühere Entwicklungsphasen zu verlagern. Eine Möglichkeit schon in frühen Phasen der Applikation Regelungskonzepte zu entwickeln bietet das Rapid Control Prototyping. Rapid Control Prototyping (RCP) hat heute einen festen Platz in der Entwicklung automobiler Steuerungssysteme. Dabei steht vor allem die modellbasierte Softwareentwicklung im Vordergrund, die es ermöglicht bereits in frühen Phasen der Entwicklung mit Hilfe von Simulation Regelungskonzepte zu entwickeln und an frühen Funktionsmustern in der Realität zu testen. Dennoch gibt es häufig einen Bruch in der Entwicklung, wenn Modelle aus der RCP Phase in die Serie übernommen werden, da hier in der Regel andere Codegeneratoren verwendet werden. Damit einher geht häufig auch ein Bruch in der Kalibriermethodik. Während bei typischen RCP Systemen die Kalibrierung durch proprietäre Werkzeuge mit proprietären Protokollen z.B. dSPACE ControlDesk erfolgt, werden in der Kalibrierung von Seriensteuergeräten Werkzeuge eingesetzt, die mit standardisierten Schnittstellen arbeiten z.B. ETAS INCA, VECTOR CANape, ATI Vision. Inhalt dieser Bachelorarbeit ist es eine Methodik zu entwerfen, die einen nahtlosen Übergang der Kalibrierung von der RCP Phase in die Seriensteuergeräteeentwicklung ermöglicht. Die Kalibrierdaten werden dabei durch automatisierte Skripte vom RCP auf das Seriensteuergerät übertragen. Die Methodik wird

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