At the Institute for Combustion Engines (VKA) under the direction of Prof. Dr.-Ing. (USA) Stefan Pischinger, research on all topics concerning the vehicle powertrain is conducted. Core focus is still the research on conventional combustion engine development like the implementation of innovative engine designs, fundamental research on more efficient combustion processes also in combination with alternative fuels or the improvement of the engine mechanics and aftertreatment systems. Additional research areas include virtual engine development, hybrid powertrains, electromobility as well as fuel cells and mechatronics for combustion engines. At any time, research is closely associated with the ongoing development of intelligent methods for test procedures and engine calibration.

Project Thesis

Start: 01.11.2017

☒ Faculty 1 - Mathematics, Computer Science and Natural Sciences
☒ Faculty 4 - Mechanical Engineering
☒ Faculty 6 - Electrical Engineering and Information Technology

Hybrid and Electric Powertrain Android / iOS App Development

VKA and FEV GmbH being a leader in developing conventional, hybrid and electric powertrains. The goal of this work is to develop and build a real customer-friendly application framework to run and compare different hybrid powertrain simulation models on mobile tablet computers.

Your tasks / your profile:

• Experience to develop Android/iOS applications
• Ability to learn new tools, algorithms & developing scripts
• Very good knowledge of hybrid and electric powertrains
• Very good knowledge of C, C++ and Objective-C
• Very good knowledge in Visual Basic for APIs
• Good knowledge in MATLAB/Simulink
• Good knowledge in MS Office

Would you like to know more?

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