



RWTHAACHEN
UNIVERSITY



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Bachelor Thesis

Start: from now

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

Literature Review on Hydrogen Combustion Engine Control Strategies

Hydrogen combustion engines have gained attention, primarily driven by the need for cleaner and more sustainable energy solutions. The key motivations are energy efficiency, low greenhouse gas emissions and local emissions. The possibility of retrofitting existing engines to run in dual-fuel operation makes this approach particularly valuable for remote regions in cold climates.

Your tasks:

- Conduct comprehensive literature review of the above-mentioned topics
- Identification of promising directions for future research

Your competences:

- Knowledge in combustion engines is beneficial
- Knowledge in control is beneficial

Your benefits:

- International, interdisciplinary research project with the University of Alberta (Edmonton, Canada)
- Possibility to deepen your research in the project afterwards as a student assistant (either RWTH or University of Alberta)

We are the Teaching and Research Area Mechatronics in Mobile Propulsion (MMP). Our heart beats for the technology of tomorrow's mobility. Around the interdisciplinary topics of mechanics, electrical engineering and information technology, we research sustainable and demand-oriented drive and vehicle concepts. We bring the future into drives!

You want to know more about us? Then you will find more information under the following links:

- [Who we are](#)
- [What drives us](#)
- [What we research](#)
- [Where we are involved](#)
- [How we bring research into teaching](#)



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OF ALBERTA

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Would you like to know more?

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