

Senior Research Engineer (00358594, 00358596)

Business: HAS, Engineering

Location: Prague, Czech Republic

Primary manager: Jaroslav Pekar

The key responsibilities will include:

- Development and calibration of physics-based, control-oriented real-time capable models for automotive powertrains using Matlab / Simulink / C-language
- Development and calibration of virtual sensors/indicators and classifiers based on control oriented models, using advanced estimation techniques (example: Extended Kalman Filter (EKF) for IVHM)
- Design of experiment (DoE) for control oriented modeling. Management of experimental campaigns (e.g. at the engine test bench).
- Develop intellectual property and new technologies to differentiate HAS products and services in area of modeling and sensing for turbocharged diesel / gasoline engines
- Cooperate with a dedicated software team to turn research into software products. Preparation of related documentation and manuals and assistance in release process
- Manage customer projects (may require international travel), including validation of algorithms at customer site, customer-facing progress reports.

YOU MUST HAVE

- M.Sc. or PhD. in Mechanical or Electrical Engineering with good knowledge of control oriented modeling, physics-based modeling for automotive systems. Big data, Machine learning, regression are a plus.

WE VALUE

- Experience with programming languages (e.g. C) and standard engineering tools Matlab/Simulink, basic knowledge of embedded platforms for automotive (rapid prototyping systems, ECUs)
- Willingness to learn new technologies / systems
- Good command of the English language, communication and presentation skills
- A passion for developing the automotive industry and the future of mobility, or an interest to learn

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