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Royal Institute of Technology, KTH
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Department of Aeronautical and Vehicle Engineering
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PERSONAL DATA:

Date of birth: 15. November 1983
Place of birth: Böblingen (Germany)
Citizenship: German

EDUCATION:

KTH Royal Institute of Technology, Stockholm, Sweden since 04/2010
Doctoral student in vehicle dynamics
Research-topic: fault-tolerant over-actuated hybrid electric vehicles

RWTH Aachen University, Aachen, Germany 03/2010 – 10/2004
Diplom-Wirtschaftsingenieurwesen (M.Sc. in industrial engineering)
Major subjects: automotive engineering and innovation management
Examiner: Univ.-Prof. Dr.-Ing. Lutz Eckstein

WORK EXPERIENCE:

Robert Bosch GmbH – Gasoline Systems, Schwieberdingen, Germany 05/2009 – 10/2008
Economical internship in innovation management

Institute of Automotive Engineering (ika), RWTH Aachen University 09/2008 – 10/2007
Research assistant in chassis systems department

Bell Equipment Ltd., Richards Bay, South Africa 09/2007 – 04/2007
Technical internship in fluid mechanics

Robert Bosch GmbH – Chassis Systems, Abstatt, Germany 04/2006 – 03/2006
Internship in sales and controlling

Institute of General Mechanics (iam), RWTH Aachen University 02/2006 – 10/2005
Student assistant as lecturer for exercises in basic mechanics

Robert Bosch GmbH – Chassis Systems, Abstatt – Germany 09/2004 – 07/2004
Technical & economical pre-study internship

ACADEMIC ACTIVITIES:

Active member of KTH Racing (Formula Student team of KTH) since 09/2010
Group lead electronics and drive train during the design of the first electric racing car of KTH Racing (2010-2012).
Faculty advisor: educational integration of the team (2012-2014)

Active staff member of the student body of mechanical engineering 03/2010 – 03/2005
Financial director of the student union of mechanical engineers, student representative of the selection committee for the professorship in automotive engineering and other commissions and student advisor.

PUBLICATIONS:

Wanner, D., Drugge, L. and Stensson Trigell, A.: Fault classification method for the driving safety of electrified vehicles. *Vehicle System Dynamics*, vol. 52, no. 5, pp. 704 – 432, 2014.

Cocron, P., Neumann, I., Kreusslein, M., Pereira, M., Wanner, D., Drugge, L., Bierbach, M. and Augusto, B.: Driver and vehicle behaviour to power train failures in electric vehicles -- experimental

results of field and simulator studies. Technical report within the ERA-Net Electromobility+ project EVERS SAFE -- Everyday Safety for Electric Vehicles, August, 2014.

Wanner, D., Drugge, L. and Stensson Trigell, A.: Influence of vehicle parameters on directional stability during electric powertrain faults in passenger cars. Proceedings of the World Automotive Congress (FISITA), Maastricht, The Netherlands, June 2 – 6, 2014.

Kreusslein, M., Cocron, P., Neumann, I., Pereira, M., Augusto, B., Wanner, D. and Krems, J.F.: Wheel hub motor failures and their impact on the driver. Proceedings of the European Conference on Human Centred Design for Intelligent Transport Systems (HUMANIST), Vienna, Austria, June 5-6, 2014.

Wanner, D. Faults and their influence on the dynamic behaviour of electric vehicles. Licentiate thesis, Royal Institute of Technology, Stockholm, Sweden, 2013.

Wanner, D., Edrén, J., Jonasson, M., Wallmark, O., Drugge, L. and Stensson Trigell, A.: Fault-tolerant control of electric vehicles with in-wheel motors through tyre-force allocation. Proceedings of the 11th International Symposium on Advanced Vehicle Control (AVEC 12), Seoul, Korea, September 9 – 12, 2012.

Wanner, D., Stensson Trigell, A., Drugge, L. and Jerrelind, J.: Survey on fault-tolerant vehicle design. Proceedings of the 26th Electric Vehicle Symposium (EVS26), Los Angeles, USA, May 6–9, 2012.

Wanner, D., Analytical and simulative study of a novel chassis suspension system. Master thesis, Institute of Automotive Engineering, RWTH Aachen University, Aachen, Germany, 2010.

Wanner, D., Identification of sustainable customer needs and generation of new product ideas in the automotive supplier industry. Bachelor thesis, Robert Bosch GmbH, Schwieberdingen, Germany and Chair of Technology and Innovation Management, RWTH Aachen University, Aachen, Germany, 2009.