

SCOTT VARNHAGEN, ASSOCIATE

EXPERIENCE

- Peter R. Thom and Associates Inc., Accident Reconstruction and Failure Analysis, 2013 – Present.
- University of California, Davis, Engineering Assistant, 2011 – Present. Consultant to Ford Motor Company developing hybrid electric vehicle (HEV) models. Developing optimal stability control strategy for advanced vehicles of the future.
- University of California, Davis, Graduate Student Researcher, 2009 – 2011. Development of dynamometer test system to study single rotor Wankel research engine. Vehicle simulation to determine feasibility of Wankel engine for HEVs.
- University of Alberta, Edmonton, AB, Undergraduate Researcher, 2008.
- Honda R&D Americas Inc, Raymond, OH, 2007, Upper body design, 2007.
- Supercar Engineering, Troy, MI, Design Assistant, 2006.

EDUCATION

- University of California, Davis, Ph.D. Mechanical and Aerospace Engineering, expected 2015.
- University of California, Davis, M.Sc. Mechanical and Aerospace Engineering, 2011.
- University of Alberta, B.Sc. Mechanical Engineering, 2009.

PROFESSIONAL ACHIEVEMENTS, PUBLICATIONS, AND PRESENTATIONS

- Graduate Automotive Technology Education (GATE) Center of Excellence Fellowship, 2010.
- NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS), 2009.
- Fall Term Capstone Design Award Winner, 2008.
- The National Oilwell Scholarship in Mechanical Engineering, 2008.
- Varnhagen, S. (2011). *Experimental Investigation of the Wankel Engine for Extending the Range of Electric Vehicles*. Thesis (M.S. in Mechanical Engineering) – University of California, Davis, December 2011.
- Varnhagen, S., Same, A., Remillard J., & Park J.W. (2011). *A numerical investigation on the efficiency of range extending systems using Advanced Vehicle Simulator*. *Journal of Power Sources*, 3360-3370.
- Varnhagen, S., Audet A. (2008). *A Comparison of HCCI Combustion Thermal Efficiencies between Transportation Fuels and Primary Reference Fuels*. FISITA Student Congress, Munich, Germany, Sept. 15-18, 2008.
- Varnhagen, S., Audet, A., Ghazi Marsaied, A., Handford, D., Shahbakhti, M. (2008). *Flexible Operation of HCCI Combustion Using Intelligent Control*. AUTO21 Conference Poster Presentation, London, Canada, June 2-4, 2008.

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