Csaba Tóth-Nagy Ph.D.

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EDUCATION	West Virginia University, Morgantown, WV Doctor of Philosophy in Mechanical Engineering Dissertation: <i>"Linear engine development for series hybrid</i> <i>vehicles"</i>	2004
	West Virginia University, Morgantown, WV Master of Sciences in Mechanical Engineering Thesis: "Investigation and simulation of the planetary combination hybrid electric vehicle"	2000
	Technical University of Budapest, Budapest, Hungary Graduate school in Integrated Engineering	1998
	Nottingham Trent University, Nottingham, UK Batchelor of Sciences in Integrated Engineering Thesis: "Selective compliance assembly robotic arm design"	1996
	Technical College of Kecskemet, Kecskemet, Hungary Bachelor of Sciences in Industrial Engineering	1993
RESEAERCH EXPERIENCE	 Széchenyi István University, Hungary, Győr, Hungary Audi Hungaria Faculty of Automotive Engineering Department of Propulsion Technology Department of Automotive and Railway Engineering, Associate professor Coordinated the grant application, simulation, development, prototype design, construction, and testing process of a homogeneously charged compression ignition engine realized through variable compression ratio. Has 5 patent applications pending. He is a registered legal expert in the Hungarian jurisdictional system in the field of internal combustion engines. 	2008-present 2006-2007
	College of Kecskemét, Kecskemét, Hungary School of Engineering, Department of Automation and Applied Informatics, <i>Assistant professor</i> Mechatronics, Image recognition in industrial applications.	2005-2006
	West Virginia University, Morgantown, WV Assistant professor Conducted intellectual property enhancement on a NOx trap using Transmural Catalysis.	2004-2005

Deputy faculty advisor of Challenge X competition. West Virginia University, Morgantown, WV 2000-2004 Graduate research assistant Performed research on hybrid electric vehicle control, artificial neural network based emission simulation, on road vehicle testing, journey parameter prediction, prototype linear engine simulation, development, testing, and optimization, engine testing and characterizing, heavy-duty vehicle chassis dynamometer testing, development of SAE standard J2711, driving cycle development for heavy-duty vehicle chassis dynamometer testing, journey parameter prediction with artificial intelligence. West Virginia University, Morgantown, WV 1999-2000 Graduate Chief of FutureTruck Team Development of hybrid electric vehicles and hybrid vehicle control strategies. Planetary power split hybrid vehicle simulation and control strategy development. **TEACHING** Széchenyi István University, Hungary, Győr, Hungary **EXPERIENCE** School of Engineering, **Department of Propulsion Technology** 2008-present Department of Automotive and Railway Engineering, 2006-2007 Associate professor Developed course material, home works, and tests. Gave lectures and seminars, home works and tests and exams. Graded students: Internal combustion engines, Alternative vehicles. Measurement of Internal Combustion Engines. **Project** management, Inernal Combustion Engine Control, Hybrid Electric Vehicles In a team, devaloped training programs in the Automotive Engineering field, both BSc and MSc. 2005-2006 College of Kecskemét, Kecskemét, Hungary School of Engineering, **Department of Automation and Applied Informatics**, Assistant professor Hydraulic control in the industry. Developed course material. Home works and assignments were both calculus based as well as computer simulation based. Gave lectures, seminars, and graded students at the end of semester. Pneumatic control in the industry. Developed course material. Home works and assignments were both calculus based as well as computer simulation based. Gave lectures, seminars, and graded students at the end of semester. West Virginia University, Morgantown, WV 2004-2005 Assistant professor Faculty co-advisor of the Challenge X student competition team:

	Co-advised about 20 students converting a 2005 Chevrolet Equinox into a hybrid electric vehicle. Developed course material in hybrid electric vehicle design. Developed lectures and tests in the fields of teamwork, leadership, engines, power electronics, hybrid vehicle control strategies, and report writing. Graded students. <i>Automatic control</i> : Developed course material. Home works and assignments were both calculus based as well as computer simulation based. Gave lectures, seminars, and graded students at the end of semester. <i>Statics</i> : Developed course material, home works, and tests. Gave lectures and seminars, home works and tests. Graded students. <i>Mechanics of materials</i> : Developed course material, home works, and tests. Gave lectures and seminars, home works and tests. Graded students.	
	 West Virginia University, Morgantown, WV Graduate teaching assistant Internal combustion engines: Gave lectures, graded home works and tests. Mobile power plants: Gave lectures, graded home works and tests. 	2003-2004
	Technical College of Kecskemet, Kecskemet, Hungary <i>Undergraduate teaching assistant</i> <i>Machine Design and Manufacturing:</i> Taught operation of milling machines and lathe machines, welding, material testing methods, and CNC programming.	1992-1993
HONORS	"Inventor nivou" awarded in 2011 at Szechenyi Istvan University.	
ACTIVITIES	Serves on the faulty board, Heads of the vehicle engineering BSc program at SZE, Serves as the secretary of the Internal Combustion Engine subcommittee of the Hungarian Academy of Science, Member of Society of Automotive Engineering Forensic expert of the Hungarian Ministry of Justice	
LANGUAGES	Hungarian (native), English (advanced/second native), German (intermediate), French (basic, quickly fading).	
INTERESTS	Faith, leadership development, horses, writing, investing	

PUBLICATIONS

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