



## Biography

► Professor Dr.-Ing. **Wolfram Stanek**, [Innovative Projects IP](#), is consultant, coach, seminar manager, lecturer, author & master project advisor for intl [universities & companies](#) in EU & Asia for electrical & mechanical Engineering, Green Tech, Knowledge Management, Mnemonics & Executive Education. Besides his main advisory for Lab “Automation & Robotics” (ATR) at University of Applied Sciences Koblenz (HSK/DE) he is also requested as SES Expert in Asia (primarily Indonesia & India). His interdisciplinary contributions are published in a spectrum of international [media](#) (books, press, web, radio, TV). As former Dean of BIS-E at HSK he has developed and installed first time in Germany a new vocational “job integrated” study BIS Electrical Engineering, extremely supported by German Ministries & BLK commission. As founder & head of HSK Lab ATR he was awarded as Senior Professor in 2012 and is Main Advisor for innovative Master Projects in this Lab ATR. Additionally to his lectures & seminars in Automation, Robotics, Electrodynamics, Mechatronics, Mathematics, Web Design, Knowledge Management, Memory Training, Speed Reading, Mind & Memo Mapping for BA & Master students at HSK, other universities & companies in EU & Asia during the last decades, he was/is advisor for hundreds of BA & Master Theses and also intl Internship students from PL + ID.

► Prof Stanek has accepted the position as Director for “Knowledge Transfer, Innovation & Entrepreneurship” at [Swiss German University SGU](#) until Sept 2013 – serving HSK as Senior Prof in parallel; but he has rejected the contract as SGU Vice Rector for “R&D and Knowledge Transfer” in 2012. He trained SGU staff & students in Engineering & Knowledge & advised Master theses for Mechatronics & IT since 2002. As SGU Dir he advised Telecom XL-IT Cloud-project and former SGU Rector with focus on leadership, soft skills, moderation, PR, web, marketing, executive education, communication & mediation. He prepared for SGU the co-op with HSK based on LoI / MoU. Prof Stanek was / is consultant & seminar manager for interdisciplinary workshops at univs & academies in DE (HSK, Mainz, Augsburg; Unis Frankfurt Goethe, Koblenz-Landau, Chemnitz; Aesculap + TAE; Mind Festival / Memo Masters), in EU ([TU Opole](#) / PL 2005-09; Academy Palma / Spain + Vienna / Austria), companies (DB, Lufthansa, Haribo, DC, NSM, Braun, BME, IHK, ThyssenKrupp, Moeller, Atlas Electronics), [Think on Board](#) cruise lines AIDA+TUI Cruises + MS Einstein, [intl. Media](#) (TV DE, FR, ID, IN, JP / web, radio, press, books: DE, A, ES, CR, Russia). Excerpt of his R&D Engineering & Brain Skills in [VDE year book](#) “Labor Market - Electrical Engineering & IT, 2013/14” upgrading SGU’s R&D for Math, Mechatronics, Automation, Knowledge Management & Memory - involving co-authors from SGU + DE + UK.

► Actual advisory & coaching contributions for universities & companies as SES expert in Asia: 2013/14 Prof Stanek has instructed oil & gas foundation [Migas](#) in Borneo/ID in mechatronics, robotics, Green Tech, drilling technologies, leadership, knowledge management for staff, rectorate & students including final exams, thesis & doctoral proposals. 2015 Prof. Stanek supported Sri Vishnu Educational Society [SVES](#) in INDIA/Andhra PR & Telangana (Colleges SVECW & VDC, Institutes of Technology VITB & BVRIT) for Technical Education Quality Improvement Program by coaching & advice of staff & students for Mechatronics, Robotics, Automation, Knowledge Management, Memory Training & foundation of new Centers of Excellence – PR by [diverse Media India](#). 2016/17 he was / is booked as SES expert for similar spectrum of topics at further colleges, universities, companies in Indonesia, India & China. In ID: e.g. [Gadajah Mada UGM](#) vocational & postgraduate study, Yogyakarta, in IN: e.g. CVRCE, Orisha. 2016 Prof Stanek supported in parallel also the universities [ITN Malang](#) as Keynote Speaker for “[innovative automation & Green Tech](#)” and the International University Liaison Indonesia IULI Jakarta with “Brain Power Techniques for Learning”. Since 2002 he had supported further univs & institutions in ID: e.g. Atma Jaya Jkt, UI Depok, ITI Tangerang, UBNS, UMN, Hok Im Tong BSD, German Center & Embassy Jkt, Goethe Inst., Rotary Clubs, High Schools, DAAD, Ekonid, Media (TV LatiVi, TV RI).

► After his multidisciplinary study Engineering at TU Munich W. Stanek served as scientific assistant & lecturer at TU Dortmund 1975-1981. His Ph.D. was earned in Theoretical Electrical Engineering & Electrical Machines developing new math algorithms for fastest computation in Engineering & Mathematics. 1981-1984 he was Head of Development at ThyssenKrupp Magnet factory Dortmund, with realized intl. patents. After this period he was appointed as Professor at HSK, in parallel consultant for ThyssenKrupp Magnet factory. [p.1 of 2]

- ▶ Prof Stanek's R&D is based on electrical & mechanical engineering with interdisciplinary physics (mechanics, electrodynamics & its applied analogies in hydrodynamics, aerodynamics, thermodynamics, diffusion) and creative knowledge management, focusing on mechatronics, robotics, automation, green tech, IT and Industry 4.0, creative learning, brain methods, memory training, strategies, and soft skills. Germany's first [vocational study Electrical Engineering BIS-E](#) at University of Applied Sciences Koblenz (HSK) was designed & guided by Prof Stanek as "triple study" in coop between university + companies + students (working as employees in parallel) and successfully realized during 1989-1994. As sub system of BIS-E Prof Stanek has involved Institute of Media Didactics at University Koblenz-Landau for partial assistance, too. In that time Prof Stanek was Dean of BIS-E & Vice Dean of Faculty Electrical Engineering, appointed as Prof with grade class C4 plus, and supported with € 1.7 Mio & new staff (4 profs, 4 assistants, 2 secretaries) by German Federal Ministry BMBF Education & Research, Ministry MBWWK Education & Science and Federal-State Commission BLK-Nr.23/89.
- ▶ Development of [High Tech Lab "Automation and Robotics" ATR 2016](#) for electrical + mechanical Production & chemical Process Engineering based on totally integrated Automation TIA-HMI-RFID-OPC-Profinet CIM Compound, virtual 2D+3D reality, synchronized multi-motor Simotion control, solar tracker robots & new "2-tons Portal Crane Upgrade to automated TTT-R Robot with multi-functional mechatronic gripper design". All Industry 4.0 components in Lab were realized in co-op with advised BA/Master Students, Lab Engineer, HSK workshop, Siemens, B&R, ThyssenKrupp, Festo etc. Support by Siemens (>100 T €) & B&R (>25 T €) are basis for actual ATR-Lab; and HSK & Internship students from EU & Asia benefit from it. 2012 ATR-Lab was selected by IT&TV-experts as HSK presentation in IT-City Koblenz Image film "Economy & Transport".
- ▶ During the last decades Prof Stanek has advised more than 250 Thesis works in EU & Asia, has conducted various R&D projects (12) for engineering, education & knowledge, is author of diverse publications including books (23) and patents for mechanical & electrical engineering (16) – [Research Portal SciPort RLP-Germany](#).
- ▶ Prof Stanek developed software systems for numerical computation of electromagnetic fields (MagnetoCAD) and 3D virtual & real synchronized robot control ([RobotoCAM](#)) – optimized by thesis works (VDI Multi-Media), especially [MagnetoCAD](#) used in diverse German companies. He designed interdisciplinary web portals ([wolfram-stanek.de](#) & [ip-innovative-projects.de](#)) for universal learning regarding knowledge & engineering. His developed math solver for fastest solution of large equation systems is published in A.f.E. First time he solved analytically 64-cells magic cubes with [new math 3D algorithm](#) (Memo Masters / Uni Hamburg 2009) and defined a "magic unit check system" for immediate derivation of central formulas & equations in physics ([INTECH](#)). Spectrum of his activities was reported in hundreds of articles in press & magazines (DE, A, ES, IN, ID etc) with respect to advanced education, creativity, fitness, memory & brain, knowledge management, automation and robotics, inventions on technical exhibits at intl fairs (Hannover Fair), on Radio & x different TV channels in Germany & French-German TV ARTE (brain), Indonesian TV LatiVi & TV RI (mechatronics, robotics, education), Japanese channel NHK (memory, speed reading). He was main advisor for Brain Power games on Photoplay Funworld touch screens "numbers&pictures", 30 languages, test in 40 countries EU&Asia.
- ▶ Professor Stanek was honoured to be a member in the "Historical Database of living and deceased people in Rhineland-Palatine RLP – Germany" (national library centre RLP, 10.000 people from all centuries) as well as in "Who is Who World Society" (Huebner's publishing house, 0.02 % of 82 Mio population in Germany).
- ▶ Some [books, publications and patents](#) as examples of Prof. Stanek's R&D spectrum: "Electromagnetic Transducers & Sensors - EM Fields & Applications in Mechatronics" (2002, Expert: co-authors R&D heads of ThyssenKrupp, Philips, Siemens, Bosch), "Memory Power" (2000, Midena: co-author mind map Guru Buzan), "Memory Training" (2006, Goldmann: co-author 1. German Memory Champion, coached by Prof. Stanek), "Super Memory" (2009, Ripol, in Russian). "Permanent magnetic charge taking or holding device" (1986, ThyssenKrupp: [intl patents](#), worldwide in motor car plants, main inventor W.S.). "From R&D to final solutions" (2010/11, INTECH: ▶"[Magic Unit](#) Checks for Physics & Field Theory" + ▶"[Magic Mathematics](#) New 2D/3D Matrix Transformations", involving SGU co-authors). Development of Lab "Automation and Robotics" for interdisciplinary Production & Process Engineering with focus on Industry 4.0+GreenTech+new Mechatronics is/was a most time intensive series of technical projects. Following publications show Stanek's main focus on Engineering & Knowledge: ▶VDE Yearbook [Labor Market "Electrical Engineering + IT"](#), 2013/14 + ▶ HSK "[High Tech Lab Automation + Robotics](#)", 2016 + ▶ IPS "[Innovative Projects](#)" + ▶ WS "[Spectrum Knowledge](#)", Professor Stanek's Engineering & Knowledge papers + books have appeared in English, German and Russian.