

Assoc.Prof. Dipl.-Ing. Dr.techn. Holger Arthaber

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Higher Education: 2017 TU Wien, Habilitation (venia docendi) in “Radio Frequency Engineering”
2004 Dr.techn. from TU Wien, finished with distinction, thesis title: “Harmonic Load Pull Methods”
2000 Dipl.-Ing. from TU Wien, finished with distinction, thesis title: “Algorithmen zur Kombination von Diversitätssignalen in GSM”

Prof. Activities: 2017–now TU Wien; Institute of Electrodynamics, Microwave and Circuit Engineering; Assoc. Professor, Head of Microwave Engineering Group
2015–2018 Brno University of Technology, Czech Republic; external peer and advisor of Antennas and High-frequency Circuits Group (4h/week)
2009–2017 TU Wien; EMCE; Ass. Prof., Head of Microwave Engineering Group
2000–2008 TU Wien; Institute of Electrical Measurements and Circuit Design; Assistant
1999–2000 TU Wien; Institute of Communications and Radio Frequency Engineering; Assistant

Research Areas: Advanced load-pull techniques (resonant tuners, active loads, broadband systems, IF-calibration techniques), RFID systems (channel emulation, localization algorithms), Measurement systems for efficient/linear RF power amplifiers, Linearization Concepts, Switched-Mode Power Amplifiers, Microwave Sensors, Mixed Digital/RF circuits, System Design, Antenna Measurements

Awards: 2017 Austrian Standards: Living Standards Awards 2017, Category Projects
2014 Inventum 2013, top ten patents of the year
2004 TU Wien, Dr. Ernst Fehrer Preis
2004 Arbeitskreis der Hochschullehrer für Messtechnik e.V., Messtechnik-Preis
2001 Wirtschaftskammer Wien, Technikpreis der Wiener Wirtschaft

Research Projects: Management of more 65 than research and industrial projects (FWF, CDG, EFRE, ZiT, WWTF, EU, ...) and research contributions to several other projects.

Publications Author and co-author of more than 135 peer-reviewed publications, see full list: <https://url.tuwien.at/icgxx>

Patents: 3 granted patents (EP+US, AT+US, EP), 4 pending applications, of which 2 granted patents as sole inventor.

Services to the Scientific Community (last five years)

2023–2024 MDPI Sensors, Guest Editor of Special Issue “Microwave Sensing Systems”
2018–now Int. Journal of RF and Microwave Computer-Aided Engineering, Editorial Board Member
2013–now Member of “Radio Frequency Working Group of the Austrian Research Assoc.” (ARGE HFT)
2011–now TPC Member, “Int. Workshop on Integr. Nonlin. Microwave and Millimetre-wave Circuits”
2011–now U.R.S.I. Austria, Head of Commission B (Fields and Waves)
2011–now Reviewer for several Journals and Conferences in the field of RF engineering, RFID, antennas