

## **Education and Awards**

- Dipl.Ing. – Technical Physics; Johannes-Kepler-University in Linz, Austria, 1981
- Dr.mont. – Geophysics; Montanistic-University in Leoben, Austria, 1984
- Senior Lieutenant – Austrian Army, 1980
- Senior Expert "development of measuring systems" - voestalpine Stahl, 2014

## **Employments**

- 2014 - 2019 voestalpine Stahl GmbH, senior expert "development of measuring systems"
- 2011 - 2014 voestalpine Stahl GmbH, head of department "development of measuring systems"
- 2005 - 2011 vatron GmbH, business unit manager „process technique“
- 1998 - 2005 voestalpine mechatronics GmbH, head of department "sensorics and process monitoring"
- 1993 - 1998 voestalpine Stahl GmbH, head of department „industrial measurement“  
start of department "mechatronic" at voestalpine Stahl, 1995
- 1992 - 1993 voestalpine Stahl GmbH, head of department „physical measurement“
- 1989 - 1991 VACE and voestalpine Stahl GmbH, engineer for industrial measurements
- 1985 - 1989 Institute for Applied Geophysics at Joanneum Research in Leoben/Austria,  
head of logging department
- 1981 - 1985 Institute for Applied Geophysics at Joanneum Research in Leoben/Austria; Geophysical  
exploration engineer

## **Side jobs**

- teacher for several education programs at voestalpine (sensors, measurement)
- teacher at Austrian College for Automation Technique (sensors)
- geophysical exploration projects for water and ore
- scientific assistant at the Institute of Experimental Physics at the University of Linz
- military service at mountain infantry, yearly military exercises
- several holiday works at voestalpine Stahl, a land surveying office, a.s.o.

## **Some inventions**

- inline contactless emissivity measurement for strip temperature control and product optimisation
- infrared measurement (development and application of IR-systems) for surface exploration
- inline measurement of surface structures of coated products at big distances
- condition monitoring tools mainly basing on vibration methods with many worldwide installations:
  - condition monitoring of production facilities (drives, gears, spindles, clutches ...)
  - mill chatter monitoring for controlling production speed and failure evaluation
  - chipped off detection of rotating shears and inline Vibration Control for Roll Grinder
- forward prognosis systems for spot welding
- distribution of micro-flow for steel hardening purposes
- geoelectric measurement methods (mis a la masse, induced polarisation) for surface exploration
- borehole logging application (ultra-high precision temperature sensor for water investigation and flow estimation and induced polarisation for ore mapping)
- a.s.o.

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