CURRICULUM VITAE

About   Thomas Fritsch

born 01/24/1957
in Coburg, single

EDUCATION

School education
1963 – 1976   Primary school, secondary school and grammar school with high school diploma in Neustadt near Coburg

University education   at the Bavarian Julius-Maximilians-University of Würzburg
1976 – 1979   **Studies** of physics and economics
1979 – 1984   **Study** of Slavic Studies
1982 – 1984   **Double degree** in Mathematics/Slavic Studies
1984 – 1989   **Studies** of Mathematics/Computer Science
03/26/1990   **Academic degree** "Diplom-Mathematiker Univ."
May 1990 – Dec. 1994   **Doctorate** in Computer Science at the Chair of Distributed Systems (*i3*)
02/15/1995   Doctoral examination (Prof. Tran-Gia, Würzburg, Prof. Kühn, Stuttgart)
07/25/1995   **Academic degree** "Dr. rer. nat." (PhD), Grade "very good"

PROFESSIONAL CAREER

1982 – 1990   ***Self-employed activity*** in education and training, consulting and programming in Würzburg and the surrounding area, Munich, Heidelberg and Hof with focus on C-programming, CAD-CAM and networks e.g. for the bfz - Berufliche Fortbildungszentren der Bayerischen Arbeitgeberverbände e. V., the IHK Würzburg and for Meteosat Software GmbH & Co. KG, Munich and Heidelberg

1990 – 1994   ***Research associate*** at the Chair of Computer Science III at the University of Würzburg with focus on Neural Networks in Telecommunications as well as interdisciplinary projects for the application of Neural Networks in
- planning of mobile communication and traffic systems (PhD thesis)
- the analysis of Parkinson's disease patient data (Neurological Institute of the Ruhr-Universität Bochum)
- time series analysis of biological data (Physical Institute of the University of Würzburg)
- the project cooperation with IBM (Böblingen), Daimler-Benz (Esslingen) and atg test systems GmbH, Wertheim-Reicholzheim, Germany
- supervision of 5 diploma theses as well as 15 student research projects and projects

ENTREPRENEURIAL CAREER

01/1993 – 02/1996	*Freelancer* at *Nimbus GmbH* (Naturwissenschaftliches Institut für Medizin, Biologie und Studien), Hammelburg with focus on data analysis and data mining of medical data with neural networks
03/1995 – 02/1996	*Freelance IT lecturer* at the bfz Würzburg and Munich in advanced training courses for graduates offered by the employment office
WS 96/97 – SS 99	*Adjunct Professor* in Mathematics at University of Applied Sciences Würzburg-Schweinfurt-Aschaffenburg

03/1996 – 10/1999   *Entrepreneurial activity* in the field of medical image and signal processing
- Establishment and management of the international scientific project group "3D real-time polychrome sonography" (Würzburg, Warsaw, Gliwice)
- Electronic development for raw data acquisition and analysis of medical ultrasound devices for the Institute of Environmental Medicine at the Canadian Ministry of Defense (DCIEM, Toronto)
- Development contract for the application of neural networks and acousto-optical methods for medical ultrasound imaging by ROI AG, Martinsried, Germany

11/1999 – 10/2004   *Entrepreneurial activity* in the field of IT consulting, in particular business intelligence, data mining, content and knowledge management (e. g. for **Cocomore AG**, Frankfurt a. Main) and IT technology for laboratory medicine (for **Lab´Partners** GmbH, Augsburg). Realization of several facility management contracts with major German insurers (**DKV - ERGO Insurance Group**).

11/2004 – 10/2005   *Science marketing* for **A. Eberle GmbH & Co. KG** to the CPR-D. (now GDASys) to avoid blackouts in the power grid.

11/2005 – 05/2006   *Development work* for **Sick Engineering GmbH** – Ultrasonic signal processing for flare gas measurement in gas pipelines.

06/2006 – 07/2009   Until 10/2008 *Development work* for **A. Eberle GmbH & Co. KG**. From 01/2008 to 07/2009 own *research work* for oil parameter analysis with multi-frequency ultrasound and intelligent data analysis.

08/2009 – 04/2017   Founder and CEO of **Yucoya Energy Safety GmbH** with corporate purpose: Development, production and sales of electronic measuring instruments for transformer oil analysis by means of multi-frequency ultrasound. Development work for the **A. Eberle GmbH & Co. KG**.

05/2015 – now   Consulting activities within the context of **BRAIN² Soft Computing & Consulting** in the field of neural networks, artificial intelligence, energy technology, transformer oil diagnostics, data science, e.g. for international consulting companies such as Gerson Lehrman Group (GLG).

06/2017 – now   Founder and CEO of **Tokeya Deep Data Dive GmbH & Co. KG** with corporate purpose: Software development in the area of Artificial Intelligence (Deep Learning, Time Series Analysis) in connection with Industrie 4.0 and the Industrial Internet of Things (IIoT) in the form of services, software development and consulting, see offer Tokeya on the homepage www.Tokeya.de

PRIVATE ENGAGEMENT

October 12–18, 1995	*Co-organizer* of the "Interdisciplinary Autumn School and Workshop on Neural Networks: Application, Biology and Theory" in Würzburg
July 26–27, 1997	*Organizer of the* "1st SoNNdays – Sommerhausen Neural Net days"
Since January 1999	*Member* of the DEGUM (Deutsche Ges. f. Ultraschall in d. Medizin)
Since June 2002	*Member* of the network NOSE-II (electronic nose)
Since 2011	*Member* of the IEEE (Institute of Electrical and Electronical Engineers)

PRESENTATION & EDUCATION

1990 – 2017	Attendance of *international congresses, symposia and conferences* in Germany, France, Belgium, Austria, Poland, Spain, England, Singapore, Switzerland, the Czech Republic, Italy, India, China and the USA.
2000 – 2003	*Private education*: Bioinformatics, Image Processing, Publishing, AI
2004 – now	**ditto** in energy technology, sensors, chemistry, signal processing, intelligent data analysis and statistics, deep learning, data science, advanced neural networks, modern AI

LANGUAGE SKILLS

German, English	Fluently spoken and written
French, Russian	Good reading skills, moderate speaking skills