




UWE B. MEDING

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Entrepreneurial-spirited, pioneering technologist with executive-level experience, technically proficient full-stack architect and engineer. I enjoy coding and solving big challenges. Broad expertise in IT, network, and telecommunications architecture/infrastructure design, full project life cycle management, client/vendor relationship management, and process improvement initiatives. Consistent development of powerful business strategies supported by cost-effective, high-performance IT infrastructures and applications. Excellent hands-on development skills.

PROFESSIONAL EXPERIENCE

2009-NOW **OutSmart Power Systems, Chief Software Architect**

Architected and designed the energy monitoring IoT platform and cloud (“big data”) software product

- Load level energy monitoring, cloud-based distributed computing. High performance web services. Data visualization, baselining, trending. (AngularJS, D3, Adobe Flex)
- Prediction of energy usage incorporating day-of-week, hour-of-day, temperature, and humidity using multivariate quantile regression with shrinkage (LASSO) (Java EE 7, R, Wildfly Cluster, Neo4J, MySQL)
- Customer-premise equipment (CPE) for high quantity, high speed, real-time data acquisition (Java 8, embedded Linux)
- Tera-byte sized time series database cluster (HBase/Hadoop, Spark, Scala and Java)
- Operation Support System (Java EE 7, Wildfly Clustering, Apache MQ, AngularJS)
- Managed outsourced development team in US(1), Spain(1), Romania(2), and India(4)

2004-2009 **Meding Software Technik, Founder and Principal**

- Architected and designed utility/cloud computing for IT services (Java, CORBA, C, MySQL, Postgres)
- Financial document mining and classification, using NLP, k-means clustering (Java)
- Citizen journalism, and editorial support system using NLP, neural nets (Java 6/7, C++, PHP, MySQL)
- Property tax calculation/validation (Java, MySQL)
- VoIP integration for small retail operations and hospitality industry (Asterisk, Java, C)

2000-2004 **Chipdata, Chief Technical Officer**

- Responsible for product development, and for advanced technology development for intelligent content creation, distributed content mining and analysis (natural language parsing), intelligent content distribution.
- Awarded the Innovative Software Product Award from the Advanced Packaging Association (APA) 2003 and 2004

1995-2000 **CCAES, Principal**

- Co-founder and Principal, computer-aided design (CAD) interoperability and data mining technologies.

1991-1995 **Cadence Design Systems, Principal Engineer**

- Schematic design migration, waveform analysis software, electronic schematic and symbol generation.

CONTRIBUTIONS

- US Pat No. 6,516,452 *Method and Apparatus for verifying design data.* [↗](#)
- US Pat No. 6,647,156 *Data Retrieval Method and Apparatus* [↗](#)
- US Pat No. 6,684,224 *Remote Database Update Method and Apparatus* [↗](#)
- Pending US and Japanese Patent: *Data extraction method and apparatus* [↗](#)
- Pending US Patents: *Extraction Method and Apparatus* [↗](#), *Graph Isomorphism* [↗](#)

OPEN SOURCE

- “Fuzzer”, a simple, light-weight fuzzy logic code generator on [GitHub](#) [↗](#) or [Maven Central](#) [↗](#)
- “Yarg”, Yet Another ReST generator for Java on [GitHub](#) [↗](#) or [Maven Central](#) [↗](#)
- Principal Component Analysis (PCA) for time-series analysis, on [GitHub](#) [↗](#)
- Isomorphism (Graph Comparison) on [GitHub](#) [↗](#)

EDUCATION

M.S. in Computer Science & Electrical Engineering
University of Applied Science, Furtwangen, Germany

TECHNICAL TOOLBOX

Concepts: Software Product Design; Enterprise Architecture; Software Strategy; OOAD; AOP; SOA; SaaS; Multi-threaded applications; E-Commerce; Fuzzy Logic System; Expert Shells; Neural Nets; Markov Processes; PLM/PDM

Computer Languages: Java; JavaScript; Scala; Groovy; C++; C; PHP; Shell; Tcl/Tk; Lisp

Protocols & API: Hadoop; Spark; Java EE; CORBA; REST; RMI; RPC; Jess; AngularJS

Databases: MySQL/MariaDB; Postgres; Oracle

Large Compute/Storage Systems: Hadoop; HDFS; HBase; Replication; Failover