UWE B. MEDING

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Entrepreneurial-spirited, pioneering technologist with executive-level experience, provide executive leadership for all aspects of strategic IT planning, implementation, worldwide support. Technically proficient full-stack architect and engineer. I enjoy solving big challenges to solve real business problems. Broad expertise in cloud software architecture, cloud computing, IoT, IT, network, and telecommunications architecture/infrastructure design, full project life cycle 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

2018-NOW   **Helen of Troy**, *Senior IoT Architect*

Architecture and delivery of the Helen of Troy IoT infrastructure for consumer and medical products under brands such as Braun, Vicks, PUR and Honeywell.

2009-2018   **eFacto Power** (formerly OutSmart Power Systems), *Chief Technology Officer*

Direct the development and implementation of the energy monitoring IoT platform and Cloud strategy. Responsible for bugeting, design, and support of all technologies. Managing outsourced development teams in US, Spain, Romania, India. Architected and designed the energy monitoring IoT platform and cloud software products.

- Load level energy monitoring, cloud-based distributed computing. High performance web services. Data visualization, baselining, trending. (AngularJS, D3, Adobe Flex)
- Energy usage prediction and fault detection using machine learning systems (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)

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, document classification, 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
- Distributed content mining, natural language analysis and processing
- World-wide content distribution

- Financial responsibility for product development, implementation, IT infrastructure, and R&D budget
- 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.

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