



MIBEECK CONSULTING GMBH

Strategy Consulting Data Center, Data Management & Cloud

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Short Biography and
Consultant Profile
Michael M. Beeck

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Education: Electrical Engineering
MBA Process & Project Management

Certifications: ISO/IEC27001, Prince2

Working Experience

since 07/2019 mibcon.de, mibeeck Consulting GmbH
Neuching
CEO, Consultant, Speaker

05/2013 – 08/2017 best Systeme GmbH, Forschungsverbund tCam4Life
Research Manager, Public sponsored Research Project “tCam4Life”
(Implementation math. Algorithm in FPGA und ANN)

07/1994 – 06/2019 best Systeme GmbH,
Unterföhring b. München
Managing Director, CTO, Consultant

Knowledge and Interests

Languages German (native), English (fluent, ICAO Level 6)
French, Portuguese (basic level)

IT-Knowledge Enterprise data center processes and strategies
Processes and strategies in cloud/hybrid cloud environments
Service-oriented approaches in data centers
Service levels and availability in enterprise data centers
Strategies and procedures for data management and data analytics
Data security, data protection and compliance

Additional Knowledge Support of EU-wide public tenders for IT
Acceptance procedures within the scope of public tenders
Proof of Concepts in the context of IT procurements
ITIL, TISAX

Certifications ISO/IEC 27001 (APMG)
Prince 2 6th Edition (Axelos)

Hobbies

Powered Flight PPL(A), SEP, NFVR

Hiking hiking, Mountain Hiking, Biking

Music playing Guitar, Bass

New Technology Embedded Systems, Single Board Computer, AI, Autonomous Driving



Michael M. Beeck

Technologist and Visionary, Technology Evangelist
Strategy Consulting for Data Management, Data Center and
Cloud

Short Biography

Michael M. Beeck (*08.Oktober.1960 in Heidelberg) is an entrepreneur, visionary, strategy consultant and speaker. After 25 years as managing director, CTO and research manager for the Munich based IT companies "best Systeme GmbH" and "best Technologie GmbH", he is now an independent consultant and managing director of "mibeeck Consulting GmbH". Already while studying electrical engineering at the University of Applied Sciences Darmstadt, he developed software and systems for applications in brain research. An area of research that has accompanied his interests and professional work to this day. He was responsible for the research on "High Performance Precise Big Data Analytics" within the BMBF joint project "tauCam4Life". A project that resulted in the world's fastest camera for observing living cells and was awarded the Hugo-Junkers Innovation Prizes in 2013 and 2017.

After moving from Darmstadt to Munich, he founded "best Systeme GmbH", an enterprise system integration company, together with a partner in 1994. As one of the first Sun-certified implementation partners for Sun clusters and parallel database systems from Oracle, the vendor-independent system house still enjoys a very good reputation as an expert for high availability and "leading edge technology" in the data center.

Over 20 years of experience with technologies and processes in enterprise data centers, combined with cutting-edge technological research, made Michael Beeck a demanded consultant and expert for trendsetting data center technologies. In this role, he supports customers from public authorities and industry in modernization of their data centers. He is considered a "protagonist in cloud computing" and is advising clients on the planning and implementation of cloud and cloud-aware technologies since 2012.

He is also a highly requested expert speaker at important information events. As a "technology evangelist", he likes to represent radically different and radically simple approaches for data management and data center operations. Michael Beeck holds several technical qualifications from leading vendors (including Oracle, IBM) with a focus on storage and systems technology in enterprise data centers. During his time as technical managing director and CTO at "best Systeme GmbH", Michael Beeck developed and maintained a close network with the management and technical departments of leading manufacturers of data center technology. Today, this network is one of his basics for identifying technological trends at an early stage and analyzing their application.

Expertise

- Operating and billing strategies in the data center
- Process Knowledge in data center operations
- Compliance and compliance processes in the data center
- Market analysis, expert opinions e.g. in the preparation of tenders
- Support of EU-wide public tenders for IT according to Regulations (VgV, UVgO)
- Market knowledge public healthcare, automotive (VDA), public sector, Public authorities of internal and external security
- Cloud edge, cloud and multi-cloud strategies
- Agile data center, data management, data as a service
- Virtualization strategies in the data center (e.g. Kubernetes, Openshift)
- High and maximum availability in the data center (system, storage and service concepts)
- Enterprise Backup/Recovery and archive, Compliance Archiving
- Technology and infrastructure in enterprise data centers
- Database Systems (e.g. Oracle, DB2, MySQL, NoSQL)
- Big Data Analytics, Real Time Analytics and Industrial IoT

Special authorizations

Clearance for public authorities of internal and external security (German SüG §9 und §10)



Project reference

Healthcare Insurance

Public contracting authority, Healthcare Insurance, Hamburg (D)

Hamburg, since 2020

General project management and strategy consulting Revision and renewal of the central database infrastructure

- Expert advice on strategy development
- General project management
- Coordination of sub-projects, manufacturers, suppliers and stake-owner
- Planning and review of the criteria of the respective milestones
- Project planning and project documentation.
- Project communication

Technologies used:

Oracle Database, Oracle Exadata, Data Center Technology, Oracle Data Guard, Oracle RAC, IBM Tivoli, IBM DB2

Applied knowledge:

Data center processes, high availability, Oracle Database, Migration, Oracle Engineered Systems, IEC27001, DSGVO, Prince 2



Project reference

Public Healthcare

Public contracting authority, Public/Government Healthcare, Berlin(D)

Berlin, 2020

Support of a public tender procedure Data Management & Data Analytics

- Development and creation of specifications from a previous market analysis and strategy development.
- Support of the tender procedure including bidder questions, bidder presentation and supplier selection process.
- Preparation of the acceptance.

Technologies used:

Oracle Database, Oracle Exadata, Data Analytics, Data Center Technology
Technical specification, functional specification, tender procedure, Data center processes, high availability, Oracle Database, Oracle Engineered Systems, IEC27001, DSGVO

Project reference



Industry (Automotive)

Industry, Automotive supplier, > 3000 Employees Germany, > 30 Data Centers in Germany, +10 Data center worldwide, Metro-Cluster

Berlin/Braunschweig, 2020

Review of enterprise strategy for centralized storage services (Datacenter Housing, Backup/Recovery Services) and elaboration of a recommendation for modernization

- assessment in collaboration with operations teams and application owners.
- Capture current processes and requirements from the application operator's perspective.
- Capturing the requirements and specifications in the client's corporate context. In particular TISAX, ISO/IEC 27001, ITIL V3, SOX/SOA
- Capture and revise concepts for business continuity and disaster recovery
- Evaluating optimal solution approaches for the relevant operating and application environments (physical and private cloud).
- Analysis of possible combinations with services from cloud providers for services such as cloud archive, test and development and data analytics.
- Recommendation for subsequent projects to modernize concepts and procurement.
- Presentation and discussion of the results and proposals in a workshop with decision-makers and management.

Technologies used:

Enterprise Storage, Enterprise Backup & Recovery, Enterprise Virtualization, Clustered GPFS, private Cloud, Campus- und Metro-Cluster, Symantec Netbackup, Veeam

Applied knowledge:

Data center processes, high availability, Data center Outsourcing, Cloud und Cloud Edge Technology, TISAX, DSGVO, ISO/IEC27001



Project reference

Industry (Automotive)

Industry, Automotive supplier, > 80.000 Mitarbeiter worldwide, > 80 Data centers worldwide, Geo-Cluster

Nuremberg, 2019

Developing and implementing an enterprise backup/recovery strategy in the age of agility and cloud

- assessment in collaboration with operations teams and application owners.
- Capture current processes and requirements from the application operator's perspective.
- Capturing the requirements and specifications in the client's corporate context, the context of the governing body (VDA) and the companies team for Information Security und Compliance.
- Evaluating optimal solution approaches for the relevant operating and application environments (physical and private cloud).
- Analysis of possible combinations with services from cloud providers for services such as cloud archive, test and development and data analytics.
- Development of an operational concept for a future backup recovery environment with optimal solutions for different infrastructures.
- Development of a compatible "on boarding strategy" for the respective operational and administrative teams.
- Preparation of technical documents for an EU-wide public tender.
- Support of the tendering and procurement process.
- Elaboration of the test and measurement procedures for PoC and later acceptance of the delivered solution.
- Presentation and discussion of the results and proposals in a workshop with decision-makers and management.

Technologies used:

Enterprise Backup & Recovery, Enterprise Virtualization, Enterprise Data Management, SAP, SAP Hana, HP / MicroFocus Data Protector, Veeam

Applied knowledge:

Data center processes, high availability, Cloud und Cloud Edge Technology, DSGVO, IEC27001, Prince 2



Project reference

Public Healthcare

Public contracting authority, Public/Government Healthcare, Berlin(D)

Berlin, 2019

Preparation of public tender for Data Management/Analytics Market analysis and strategy recommendations as preparation of public tender

- Comprehensive market research with strategic assessment and trend analysis in the customer context for the preparation of a European-wide public tender. The prepared expert opinion forms the basis to select the best type for the upcoming public tender.
- Assessment of market development and trends in the environment of Data Management Systems for Analytics (DMSA). Also evaluating cloud and cloud-aware offerings.
- Customer currently uses high-end database systems in data center. Amount of customer's data is far beyond multi Terra Bytes.
- Evaluation not only in terms of available solutions and technology. Efforts for on-boarding and migration were also to be evaluated economically and technically.
- Presentation and discussion of the results and proposals in a workshop with decision-makers and management.

Technologies used:

Oracle Database, Oracle Exadata, Data Analytics, Data Center Technology, AWS, Google Cloud, Microsoft Azure, Oracle Cloud, Redhat Openshift, Kubernetes, Pivotal, Greenplum, Amazon Redshift, Google Big Query Data base, Big Data Analytics, DSGVO, Cloud und Cloud Edge Technology, Data center processes, high availability

Applied knowledge:



Project reference

Healthcare

Industry, Healthcare Supplier, 2 Data Centers, Cloud Services

Duesseldorf, 2019

Next Generation Medical Carts: Developing a strategy for the next generations of visit and care carts in hospitals

- Company already manufactures and sells medical carts with integrated solutions for electronic patient records and documentation.
- The attachment of information technology equipment to such carts is becoming increasingly commoditized in the medical device market.
- Development of strategies for enriching the overall solution in order to maintain or expand unique selling points.
- Development of concepts for autonomous small navigation in buildings (e.g. for the realization of automated loading in the hospital's pharmacy before the nursing rounds).

- Testing and evaluating different sensor equipment for advanced data analysis.
- Checking and evaluating access and authorization procedures.
- Development of suitable application infrastructure approaches in the backend (PaaS, SaaS, Function as a Service).
Research and evaluation of service data centers for the operation of an appropriate application infrastructure.

Technologies used:
Applied knowledge:

Google Coral, NVIDIA Jetson, Google Big Query
IOT, Big Data Analytics, DSGVO, Cloud und Cloud Edge Technology, Data center processes

Project reference



Industry (Automotive)

Industry, Automotive supplier, > 80.000 Mitarbeiter worldwide, > 80 Data centers worldwide, Geo-Cluster

Nuremberg, 2017 - 2019

“Virtual Private Cloud“: Development of a multi-level enterprise strategy for an agile data center operation

- Needs analysis.
- Capture the existing virtualization and storage environment.
- Capture of existing processes and workarounds.
- Capturing the requirements and specifications in the client's corporate context, the context of the governing body (VDA) and the companies team for Information Security und Compliance.
- Team interviews to record the wishes and fears of the affected teams and employees.
 - Elaboration of possible strategies and definition of requirements.
 - Evaluating of possible solutions in the market and market analysis
- Generating a shortlist for a proof of concept (PoC) of the favored solutions
 - Creation and support of the public tender for the PoC.
 - Developing the measurement criteria for a PoC.
 - Performing the performance benchmarks in the PoC. The optimal solution identified in the PoC is the basis of the client's data center strategy for the next 5-7 years.
- Challenge:
 - 24/7 operation of a heterogeneous operating environment on classic virtualization and Storage environment (SAN).
 - Worldwide connection of data centers through replication mechanisms.
 - Maintaining SLA and other compliance requirements
- Development of an overall strategy for data center operations for the next 5-7 years based on the requirements and results of the PoC.
- Identify standard build blocks for a global data center strategy.

- Cross-departmental presentation and discussion of results and proposals in workshops with decision-makers and department leaders.
- Development of a 3-step plan to implement the final strategy (SaaS from a virtual private cloud).
- Monitoring and follow-up during the implementation of the 3 step strategy

Technologies used:

Applied knowledge:

Converged Infrastructure, Hyper Converged Infrastructure, Enterprise Virtualization, Cloud Orchestration, Linux, Windows, SAP, SAP Hana Data center processes, high availability, data center outsourcing, cloud and cloud edge technologies, coaching (on-Boarding), DSGVO, IEC27001, Prince 2



Project reference

Industry (Automotive)

Industry, Automotive supplier, > 80.000 Mitarbeiter worldwide, > 80 Data centers worldwide, Geo-Cluster

Nuremberg, 2019

Emergency strategy and manuals for all data center locations

- Project scope: (approx. 80 data center locations worldwide). High-level review of the respective emergency concepts and manuals.
 - The customer's team, together with an external service provider, designed concepts and manuals for the respective sites.
 - Review of the concepts and manuals submitted, taking into account corporate policies and guidelines.
 - Review of the developed processes and procedures for plausibility and compliance
- Challenge
 - Technical procedures are partly site-specific and require on-site testing.
 - Extensive compliance and SLA requirement
 - Extensive requirements of the governing body (guidelines, escalation management and reporting obligations).
 - Compliance with corporate IT security (CIS) policies and GDPR/DSGVO requirements.

Technologies used:

Applied knowledge:

Enterprise Virtualization, Enterprise Data Management, SAP, SAP Hana Data center processes, high availability, DSGVO, IEC27001, ITIL 3



Project reference

Public Healthcare

Service Data Center, Public Healthcare Insurances, > 1200 employees

Munich, 2016 - 2017

From a disk in the SAN to storage as an infrastructure service or private cloud services

- Capture and analyze the existing infrastructure and processes in the data center.
- Analyze and categorize enterprise applications in terms of SLA and cloud-awareness.
- Evaluating and analyzing the specifications for performance and availability in the data center infrastructure.
- Checking and developing processes for consumption-based billing.
- Checking and evaluating access and authentication procedures.
- Development of suitable application infrastructure approaches in the backend (IaaS, PaaS)
- Benchmarking of possible solutions as a part of a PoC (Proof of Concept)
- Preparation of the specifications for a public tender
- Support of the public tendering process
- Project management during installation and acceptance.
- Support for on-boarding of employee and optimization of consumption-based billing.

Challenge:

- 24/7 operation of a heterogeneous operating environment on classic virtualization and Storage environment (SAN).
- Worldwide connection of data centers through replication mechanisms.

Technologies used:

IBM SVC/SpectrumScale, GPFS SAN, Campus- and Metro Cluster, Storage-Virtualization, Filesystems, Dell / EMC Networker

Applied knowledge:

SAN, GPFS, Data center processes, high availability, Prince 2

Project reference



Research / Development

Government joint project *University and Industry*, sponsored by BMBF
(Federal Ministry for Research and Technology)
Research Field: Life Science / Photonic, Real Time Big Data Analytics

München, Magdeburg, Berlin

2013 - 2018

„tCam4Life“ Ultra-sensitive and time resolving research camera

- Create and defend a research plan with multiple collaborative partners from industry and universities.
- Strategic planning and budgeting of the Realtime Big Data Analytics project.
- Project management of the research project with several project phases and beyond an extension.
- Source and engage external development staff from local colleges and universities.
- Supervision of several bachelor and master theses.
- Monitoring and supervision of sub projects of all research phases.
- Presentation of results and findings at international congresses.
- Planning and supervision of the prototype development
- Developing of procedures for measurement and evaluation.
- Evaluating market opportunities for commercial product.
- Development of a second use strategy of the results (real time big data analytics)
- Awarded the "Hugo Junkers Innovation Prize" of the state of Saxony-Anhalt for the most innovative research project (2013) and for the most innovative applied research project (2017).

Technologies used:

FPGA Design, FPGA programming, artificial neuronal networks (ANN), cloud based training for ANN, Edge Analytics, Big Data Analytics, High Speed Data Analytics

Applied knowledge:

Realtime Data Analytics, FPGA Design, Compute Cluster (GPU), Cloud Integration, Interface Management, Prince 2



Selected lectures and workshops (in german language)

Leipzig, 2019

“Killing Storage – intelligent Edge“

- Contrary to the predictions of many storage vendors, IOT/IIOT is not necessarily becoming the new storage driver in the data centers or cloud, but rather a standalone ecosystem of smart sensors and efficient pre-processing. Embedded AI, such as Google's Coral TPUs, are already shifting much of the processing and evaluation to the sensors at the point of collection. This makes the transmission or even storage of mass data obsolete.

München, 2019

“IoT, Analytics in the Cloud, IBM Watson Cognitive“

- What do Big Data Analytics and the distribution of an electron charge cloud ("tauCam4Life") have in common? Both require a deep understanding of data relationships and algorithms, but also of technical feasibility and economic implementation. The cloud can economically provide the necessary computing power for big data analysis, but often infrastructure and processes in data centers are not able to use these resources efficiently. What options are there to include the legal framework (e.g. GDPR, compliance) in this context?

München, 2019

“Cloud Workshop for Leaders an Managers in IT“

- A view away from any product and manufacturer worlds. What does agility mean in the data center and what are the advantages of agile operation? Internal processes, workarounds and compliance do not have to speak against a cloud strategy in general. Which strategies allow a smooth "on-boarding" of an existing operations team?

Frankfurt, 2019

“Instant Recovery – Backup as a infrastructure service“

- While backup problems and backup solutions are still discussed, modern approaches declare backup to be a relic of days gone by. In times of service-oriented approaches and cloud edge technologies, efficient management of all data copies in the company equally fulfills the requirements for instant recovery and long-term archiving. And this simply as an additional service of storage infrastructure services.

München 2018

“Big Data und Internet of Things“ – Spontaneously networking light bulbs and mega flops the size of a pack of cigarettes”

- Technological approaches and their implementation are already "departed" in the true sense of the word. And not just in the field of autonomous driving. Also "departed", in the sense of impressive, are the

possible applications of sensors and everyday products that spontaneously network on the Internet with IPV6. The sheer volume of data and the analysis approaches that result from this are also "departed" in the sense of they are difficult to imagine.

München, 2018

“Oracle Database forensics – Preservation of evidence in the fragments of a database“

- Databases are the most important lifeblood of a company. Accordingly, they are worthwhile targets for attacks from within the company and from outside. While many attacks can be detected and traced through auditing and logging, an attack by skilled personnel, e.g. from within the company, is problematic. A system could be compromised, but the traces manipulated or even eliminated. In those cases, the analysis very quickly finds itself at the block level, in files or file systems.

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