# Andreas Jung

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# Short introduction

## Technologies:

- Python since 1993 (expert)
- Plone CMS since 2001 (expert)
- NoSQL and RDBMS database

## Working areas:

- Backend development and integration
- Individual software solutions with Python
- Database-driven applications
- Electronic publishing solutions (XML, DOCX, HTML, PDF etc.)
- Automatic text layout
- Single-source multi-channel publishing solutions
- Web applications and portals
- Web-Portale
- Microservices

## Roles:

- Developer
- Analyst & Architect
- Team lead
- Project manager
- Trainer

## Strength:

- Ability to work through and in complex domains

- More than 25 years in backend development

- Risk assessment

- Structured thinking

- Project planning and communication

- Stakeholder management

- Connected with various open-source communities

## Engagement:

- Member of Zope Foundation

- Member of Plone Foundation

- Found of German Zope Use Group

- Co-Organizer EuroPython 2012 in Berlin

- Organizer Python Meetup Tübingen

- 10 years release manager for Zope application server

- Fellow of the Python Software Foundation

- Regular speaker at various conferences

## Repositories:

- 150 repositories on Github ([github.com/zopyx](github.com/zopyx))

- Misc repositories on Bitbucket ([bitbucket.com/ajung](bitbucket.com/ajung))

- Author of various Python, Zope and Plone add-ons

- Contributor to various projects

# CV

born 21.7.1967 in Saarbrücken

1986 Abitur

1986 – 1988 Civil service

1989 -1992 Studies in Church Music

1989 -1995 Studies in Computer Science and Electrical Engineering in Saarbrücken (Diplom degree)

1995 - 1996 Software developer for Creatix Polymedia, Saarbrücken

1996 Software developer for Infeurope S.A., Luxemburg

1996 - 2001 Software developer for Saarbrücker Zeitung, Electronic Publishing department

2001 - 2002 Software developer for Zope Corporation, USA

2002 - 2003 Software developer and consultant for Haufe-Lexeware

since 2004 Founder and managing director of ZOPYX

since 2004 Freelancer for Python, Zope, Plone, Electronic Publishing

2000 - 2010 Release manager of Zope

2012 - 2013 Team lead for Enquos.com

Languages:

- Germany (native speaker)

- English (expert level)

# References (excerpt)

- **E.ON Energy:** Architecture and implementation of the new E.ON bonus engine (Python, data science topics, Gitlab, Azure Devops). 08/2021-03/2022.

- **EWE Energy Trading:** Support and consulting in Python development, microservices, system architecture and mentoring, Docker + AWS - 02-04.2021.

- **Kitconcept/HU-Berlin:** Python and Plone development support, Docker - 07-12.2020.

- **ESCrypt/Bosch:** Python in Automotive Intrusion Detection Environment - 11-12.2020.

- **German Society of Hematology and Medical Oncology**: Realization of the portal www.onkopedia.com (XML based Publishing Workflows), period 2010 - today

  - Realization of a single-source multi-channel publishing portal for the publication of medical guidelines for a medical society.

  - Publishing Workflow: DOCX -> XML -> HTML | PDF | ePub

  - Realization based on Python 2, Plone 4, eXist-DB, XML-Director

  - Connection of the central applications to C-Rex.net and Produce & Publish Webservices

  - Complete relaunch/redesign of onkopedia.com in 2019 on top of Plone 5.2/Python 3

- **University of the Saarland**: E-procurement platform for the central chemicals warehouse with shop, order management, link to SAP, 2016 - today

  - Complete new conception of a shop for the central procurement of the Saarland University

- own order management for the shop

- technical base: Python, Plone 4

- Elasticsearch Integration

- Connection to SAP and third-party systems via web service interfaces

- Realisation of a hazardous substances register with graduated rights management for university employees, fire brigade and company doctor

- Extension of the system into 2017 for the central procurement of the entire university

- **Dynamore GmbH**: Takeover, maintenance and redesign of a portal landscape with approx. 10 Plone portals, 2016 - today

  - Ensuring the general portal functionality

  - New development of a seminar module

  - Integration of a new license generator

  - from Q3/2017: New concept and relaunch of public portals

  - Elasticsearch Integration

  - Consulting, Training

  - Python 2, Plone 4/5

  - Migration and Relaunch on top of Plone 5/Python 2+3

- **Beuth Hochschule für Technik Berlin:** Study on privacy with medical apps. 2019

- **Humboldt University Berlin:** Coaching and support with Plone 5/Python 3 migration. 2019 - 2020

- **Mediaman/Suzuki Germany:** Plone 5 Consulting, Plone coaching and consulting for suzuki.de. 2019 (ongoing)

- **University of Gent:** Migration support of the ugent.be website from Plone 4 to Plone 5 (Python 3), Plone/Python backend development, consulting and coaching. 2019-2020

- **Arculus:** architecture, consulting, Python 3 development in modular assembly, environment industry 4.0. 2018 - 2019

- **ITAD (Interessengemeinschaft der Thermischen Abfallbehand-lungsanlagen in Deutschland e.V. - Association of Thermal Waste Treatment Plants in Germany) ):** Migration and development of Plone 4 + Plone 5.0. 2017 - today

- **Bresto Media:** Realization of an electronic publishing application with Magento connection for the PDF generation of ballot papers for local and municipal elections in Baden-Württemberg based on the standard exports of the corresponding software applications in the municipalities and districts. 2018 - today

- **Inzept3D:** Connection of a Flask-based application to the payment backend of Heidelpay for registration and payment via SEPA direct debit and credit cards. 2017/2018.

- **GrandCentrix**: Support for Python-based implementation of microservices for the mobile apps of a Swabian machine manufacturer, Elasticsearch configuration for 30 languages Further details not available due to confidentiality obligation. 2017

- **Axxessio/Telekom**: Python-based development of micro services. Further details not available due to secrecy obligation. 2017

- **LACON Institut**: Acquisition and further support of a Python-based portal software for the administration and control of food certification processes, 2017
    - Python 2, Plone 4/5

- **WhereGroup**: Acquisition and further support of a Python-based laboratory software for rock testing. 2017
    - Porting from Python 2 to Python 3
    - Framework: Pyramid, Flask
    - Improvement of performance

-    o   Troubleshooting and stability improvements

- **Omicron**: Implementation of a new Internet presence (subcontracted):

  - o  Python 2, Plone 5

- **T-Systems**: Migration of a large legacy application (Zope, Python, Oracle), 2016-2017

  - o  Migration of the old Zope/Python codebase from Zope 2.7 to Zope 2.13, approx. 200.000 LOC

  - o  Porting Oracle SQL Stored Procedures and How They Work

  - o  The project was terminated prematurely after a further assessment of the cost/risk/benefit ratio.

- **EU Project EUDAT**: Web portal for coordination and planning of network resources and services, Max Planck Society, RZG Garching, 2017

  - o  Implementation based on Python 2 and Plone 4

  - o  Realization of various content types

  - o  Advice on the overall architecture

  - o  Review Architecture and Security

  - o  Client-server architecture (web service) for capturing timeseries data from services distributed throughout the EU.

- **Enquos**: Team-Lead and Technical Architect for enquos.com, period: 2013 - 2014

  - o  Realisation of a "Self-Quantification" portal for personal tracking of your own health data and eating habits

  - o  Tasks: initial design and architecture

  - o  Composition of the initial development team and leadership of the team for approx. 2 years

  - o  Realization of the main portal based on Python 2 + Pyramid

- o   Conception of various JSON Webservice APIs for mobile applications, schema design and verification

- **Energieberatung GmbH**: Conception and realization gasmonitoring.info, period 2012- today

  - o   Realisation of a platform for large industrial customers to plan gas purchases and track their own consumption

  - o   Implementation based on Python 2 and Plone 4

  - o   Visualization via Highcharts

  - o   Extraction of domain-specific knowledge (no written documentation of business logic)

  - o   Formalisation and codification of knowledge in the field of gas procurement

  - o   Microservice/REST API for import/export of consumption information (format: MSCONS/EDI)

  - o   Full text search SOLR → Elasticsearch

  - o   The project was discontinued (due to lack of recapitalisation)

  - o   Full text search SOLR, Elasticsearch

- **Leibnitz Institut für Wissensmedien**: Realization of the portal www.e-teaching.org, period 2014/2015

  - o   Advice on relaunch

  - o   Migration (Export/Import)

  - o   Graphic/Design Implementation

  - o   Implementation based on Python 2 and Plone 4

- **Hertie-Stiftung**: Support and further development of the dasgehirn.info portal, period 2012 - today

  - o   Python 2, Plone 4

- **Gesellschaft für Datenschutz und Datensicherheit**: Support and further development of the portal gdd.de, period 2014 - today

- - Python 2, Plone 4
- **Other university customers:**
  - University of Marburg
  - Humboldt University Berlin
  - Max Planck Society (period 2004 - 2015)
- **Saarländischer Rundfunk**: Realisation and support www.unserding.de (2004 - 2006)
- freelance work for **Haufe-Lexware** in Freiburg (2003 - 2012)
- Company partnerships:
  - **Cusy IO**, Berlin: For many years there has been a very close partnership and networking in customer projects.
  - **Abstract Technology**, Berlin: Networking in Graphics & Design, Creation and Publishing
- and much more.
- Complete reference list:
  - https://www.zopyx.de/referenzen
  - https://www.produce-and-publish.de/showcase/referenzen

# Own projects

- **Produce & Publish**: Single-Source Multi-Channel Publishing solution
- **XML-Director**: plattform for XML publishing applications
- **print-css.rocks**: CSS Paged Media tutorial

- **content-gemeinsam-erstellen.de** collaborative editing solution for web applications

- **TextIndexNG3**: fulltext search for Zope & Plone

# Rates and conditions

- 820 EUR / day or 100,25 EUR / hour
- Payment within 10 business days after invoicing without discount

Andreas Jung

Technology
- Content Management
  - Plone
  - Alfresco
  - Marklogic Server
- Web Technology
  - HTML
  - Javascript
  - AngularJS
- Programming Languages
  - Python
  - Java
  - C
  - Swift
  - PHP
  - Shell/Bash
  - Javascript
- Databases
  - Relational Databases
    - Postgres
    - MySQL
    - Oracle
  - XML Databases
    - BaseX
    - ExistDB
    - Marclogic Server
  - NoSQL Databases
    - Marklogic Server
    - ArangoDB
    - Cassandra
    - MongoDB
- Search technology
  - SOLR
  - Elasticsearch
- Others
  - Jenkins
  - JIRA
  - AWS
  - Google Cloud
  - Docker
  - CoreOS

Projects
- XML Director
- print-css.rocks
- Produce & Publish

Solutions
- Content Management
- Intranet/Extranet
- Web applications
- Custom Software Development
- Publishing Solutions
  - PDF Generation
  - CSS Paged Media
  - Single-Source Multi-Channel solutions
  - DOCX to XML conversion
  - EPUB Generation
  - XML
  - Technical Documentation
  - PDF Tools
    - PDFreactor
    - PrinceXML
    - Antennahouse
    - Vivliostyle
  - XML Databases
    - BaseX
    - ExistDB
    - Marklogic Server

Services
- Implementation
- Consulting
- Project Management
- Team lead
- System Architecture
- Quality assurance
- Hands–On Training