

# curriculum vitae

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## Education

### Web Development

07.12.2020 – 07.10.2021

DCI - Digital Career Institute gGmbH  
<https://svenwacker.github.io/my-portfolio/>

### Diploma

09/2005 – 09/2008

SRH Fachhochschule Heidelberg  
Electronical Engineering (Diploma)  
Graduation: Dipl.-Ing. (FH) Elektrotechnik  
Final grade 1,9

### Masterthesis:

„Systemengineering of the Biochemical Conversation of Renewable Energy.“

### Universities without graduation

2003 - 2005

Ruprecht- Karls- Universität, Heidelberg  
Mathematics, Classical Music, Philosophy

2002 – 2003

Fachhochschule Mannheim

1999 – 2002

Business and Engineering

TU Darmstadt

Business and Engineering

Electronics

### ABB Schaltanlagen GmbH; Ladenburg

1996 - 1999

International Vocational Education  
Grade 2

### Army/ Bundeswehr

1991 - 1995

Drohnenbatterie 12 (drones)  
Grade 1

### School

1991 - 1995

Carl- Benz- Schule, Mannheim  
Technical Highschool

## Working experience and skills

### seleon GmbH, Heilbronn

03/2019 – 09/ 2019

#### Information:

- Founded in 1998 as a spin-off from the University of Freiburg, seleon gmbh is today a broad-based engineering service provider in the field of medical technology specialising in product development, production, licensing and risk management.
- 85 employees at seleon GmbH
- 10 Mio € sales overall
- Service provider for medical devices

#### Job discription

Area Sales Manager

#### Targets

No targets arranged.

### \*Friatec GmbH, Ceramics Division, Mannheim

06/2014 – 02/ 2019

### Mechatronic AG, Darmstadt

10/2012 – 05/2014

#### Information:

- Since 1987, Mechatronic has developed and manufactured medical devices under contracts with clients.
- 65 employees at Mechatronic AG
- 10 Mio € sales overall
- Service provider for medical devices

#### Job discription

Sales Manager for development and production of medical devices

#### Major Products

Service provider for medical devices

#### Targets

- Production capacity
- Productivity
- New customers
- Networking
- Analyses
- Contracts
- CRM
- Mentoring
- Marketing
- Business Development

## **\*Friatec GmbH, Ceramics Division, Mannheim**

06/2014 – 02/ 2019

## **Friatec AG, Ceramics Division, Mannheim**

10/2008 – 09/2012

### **Information:**

- 350.000 qm areal
- 1.100 employees Friatec AG
- 250 employees in ceramics division
- 170 Mio € sales Friatec AG
- 40 Mio € sales in ceramics division
- Specialised in corrosion and wear-resistant materials

### **Job description**

Category Manager - Electrical Engineering and Accelerators (Ceramic-To-Metal Assemblies)

Sales responsibility for approx. 10 Mio €

### **Major Products**

- Customized Ceramic-to-Metal Assemblies (CMAs)  
e.g. Image intensifier, Anode, Cathode (X-ray)
- Feedthroughs (singlepin, multipin, coaxial, high pressure)
- Insulators, tube-to-tube insulators, voltage breaker
- Standoff insulators
- Deflection and focusing units
- Sensors in different joining methods
- Segmented Insulators for DC- and E-Guns (Accelerators)
- Dipole, kicker and quadrupole chambers (Accelerators)
- Coupling windows for high frequency / microwave

### **Market segments**

- X-Ray
- Vacuum Instrumentation & Technology
- Vacuum industry
- Cryogenic industry and research
- Automation and Sensors
- Fundamental physical research
- Particle physics
- Material research
- Medical applications

### **Business Development Management**

- High pressure feedthroughs for chemical and vacuum applications
- High pressure feedthroughs for power plants
- Cryogenic applications (feedthroughs, insulating tubes)
- Customized electrical and mechanical engineering
- Accelerator parts for beam injection, deflection and focussing
- X-Ray applications

### **Product specialist**

- Ceramic-to-metal assemblies

- Joining technologies (brazing, welding)
- Coating technologies
- Material science
- HF applications
- X-Ray technologie
- Sensors and control

#### Consulting electrical engineering

- Sales Friatec
- Sales Partners
- 3<sup>rd</sup> Parties

#### Marketing

- Brochures and papers
- Networking (congress e.g. IPAC, ICC)
- Exhibitions

#### Specials and Skills

- Interdisciplinary thinking
- Research and Development
- Construction and Planing
- Project Management
- Product Management
- International Sales and Marketing
- Business Development
- Customer Relationship
- Strategic Organization Development
- Strategic Planing and Analysis
- Workshops, Taking Action
- Quality Management/ Auditor
- Production Flow and Optimization

#### Projects

- Medicine (Varian Medical Systems, Zeiss Medical, Siemens)
- Industry /Applied Materials, COMET; GE; Nexans)
- FAIR project SIS 100
  - voltage breaker
  - current lead flanges
- Stochastic cooling
- Germany (KIT, DESY, Aurion, Carl Zeiss Medical, Varian, RI, FMB, Pfeiffer, Pink...)
- Swiss/ CERN
  - Upgrade of LHC
  - Linac 4 insulator
- USA (BNL, Indiana, Cornell)
- Russia (JINR, Budker, Dubna)
- China (IHEP/ Beijing, Institute of modern physics/ Lanzhou)

## Results

- Growing markets
- High contribution margin
- Customer Relationships
- Problem solver

## Paper Presentation

### **“Cryogenic applications in vacuum technology”**

3<sup>rd</sup> ASPERA Technology Forum Industry meets Academia:

ASPERA Technology Forum

13.-14.03.2012

GSI/ IHEP Lichtenberg-Haus, Darmstadt

### **“Joining technologies and applications of ceramic-to-metal assemblies”**

TIARA Industry Workshop

26.-28.11.2014

GSI Helmholtzzentrum für Schwerionenforschung GmbH

## Paper for IPAC 2016 (International Partical Accelerator Conference in Chicago)

Successful Laboratory – Industry Partnerships

Cornell University – Friatec AG

“Segmented Insulator High Voltage DC Photocathode Gun.”

## Marketing, Brochures and Productsheets

Electrical Engineering – Ceramic-to-metal assemblies

Sensor and measuring technology

Accelerator Components

Mechanical Engineering (main parts)

Insulator for Ion source (Linac CERN)

Vacuum chamber (IHEP)

Vakuum chamber for kicker magnet (IHEP)

Insulators for cryogenic applications

Case study: Electrical brakers for cryogenic systems (GSI, FAIR, IHEP)

Source: <https://kyocera-solutions.de/en/downloads/frialit-degussit-high-performance-ceramics>

## Customer Seminaries, Visits, Workshops, Congresses

Europe: Germany, Russia, Sweden, Norway, Denmark, England, Spain and Italy

ROW: India, USA, China, South Korea

eg. GSI/ FAIR Darmstadt, DESY Hamburg, JET Culham, IHEP China, RRCAT Indien

## Worldwide Exhibitions and Conferences

VaccuumExpo, AtomExpo, Vacuum Show, IPACs, PACs

Hannover Exhibition, Achema, Medtec, Medica, Compamed, Semicon etc.

## Other working experience and skills

### Kauer GmbH, Heddesheim

05/2008 – 09/2008

Masterthesis:

„Systemengineering of the Biochemical Conversation of Renewable Energy.“

### von Hoerner & Sulger GmbH, Schwetzingen

05/2006 - 09/2006

2. Practica:

Robotics, Electronics, Sensorics

### Bikemax Süd GmbH, Mannheim

06/2006 - 08/2008

Salesmen for sports equipments

### Streilinger Vertriebsmarketing GmbH, Heidelberg

06/2003 - 06/2006

Call Center Agent

### MS Elektrotechnik, Viernheim

01/2005 - 06/2005

Systemengineer

Update of a nuclear power plant

### Thomas Schumacher Landschaftsbau & Gartengestaltung, Weinheim

2003 - 2004

Horticulturist

### Arcor Hotelerie, Ibis Hotel Friedensbrücke, Frankfurt

2001 - 2003

Receptionist and Evening Clerk

### Dr. Wessling – Beratende Ingenieure, Mannheim

2001 - 2003

Building Surveyor

### Trintech GmbH, Neu Isenburg

1999 - 2001

Service Engineer for payments devices

### ABB Schaltanlagen GmbH; Ladenburg

1999 - 1999

Worker in plant

## Languages

German: Native Language

English: Nearly native Language

French: Advanced Listener and Reader; Intermediate Speaker and Writer

Italian and Spanish as Beginner

## Computer Skills

Programming: c++, Javascript, html, css, microcontroller

Applications: Office, Windows, Server, Network

Platforms: Microsoft, Atmega, WinCC,

3D Modelling: CATIA , Eagle, Matlab, Multisim

## Projects

University: ELROB 2006, EUROBOT 2006

Industrial Projects for fundamental Research

## Interests

Sports, Sciences, Family and Friends, Me time

Open minded being

Solution orientated thinking

Kerzenheim, April 3rd 2021



Sven Wacker