

Experienced software developer and physicist with extensive expertise in R&D, machine vision, software architecture, and SDLC, as well as solid experience in leading technical projects and teams. Open to innovative challenges.

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## Professional core competencies

- Software Architecture and Software development life cycle
- LabView, Python, Delphi, Machine Vision, SVN/GIT, Jira, Postman, SQL
- APIs, Automation and Integration, OPC UA, Twincat
- Project management, distributed team coordination
- Global technical support, CI/CD

## Professional experience

05/2017 –

### Software Developer

#### **Scienion GmbH, Berlin**

- Lead software developer of the [CellenONE platform](#) for controlled isolation of living cells or bacteria with applications in medical research, bioprinting, cloning, sequencing, etc.
- Agile customer- and series-oriented project development for high-precision liquid handling, bioprinting, dispensing, and sorting of living cells and bacteria for biotech/pharma/cancer research etc.
- Introduced code management systems (SVN + Git) to the Company
- Introduced agile development, Jira, Scrum, ticketing to the Company
- Developed the HTTP REST API and OPC UA server for integration of the machines with customer LIMS and production lines
- Development of the high-performance Machine Vision image analysis for robot positioning, calibration, particle (cell/bacteria) separation parametrization, etc.
- Continuous code refactoring, Mentoring
- Branches conflicts resolving, Global technical support, Helpdesk

08/2015 – 04/2017

### **Parental leave**

05/2009 – 07/2015

### Research associate

#### **Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Berlin**

- Instrument scientist and local contact in charge of the E2 Flat-Cone single crystal and powder neutron diffractometer
- Scientific and technical advisory and support for international groups
- Analysis of incoming project proposals regarding technical feasibility
- Research on innovative materials, data analysis
- Continuous further development of the measurement station

06/2004 – 04/2009

**Senior Research Associate / Group leader / Head of Laboratory**  
**Institute for Metal Physics, Kyiv, Ukraine**

04/2000 – 10/2008

**Visiting Scientist** at Helsinki University of Technology, *Helsinki, Finland*

10/2008 – 11/2008

**Visiting Scientist** at Osaka University, *Osaka, Japan*

02/2003 – 09/2003

**Research fellow** - Hahn-Meitner-Institut, Berlin

01/1999 – 06/2004

**Research assistant** - Institute for Metal Physics, Kyiv

## Certificates & Courses

11/2023

Data Analytics (Machine learning, MongoDB, SciKit, Tableau) – Ironhack

11/2016

Quality officer / QA (DIN ISO 9001:2015) – Personal Certification TÜV

11/2016

Project Management (DIN 69901) – PM-ZERT der GPM

06/2016

C1 German – Goethe-Institut Berlin

## Academic education

06/2003 – 04/2006

### PhD in Solid State Physics

Institute for Metal Physics, Kyiv, Ukraine

- Focus: Solid State Physics, Crystallography, Magnetism
- *Dissertation thesis*: "Temperature dependence and long-term stability of the magnetic field-controlled deformation in the Ni-Mn-Ga alloys"
- Final grade: Very good

07/1995 – 07/2002

### Master of Science (Applied Physics)

The National Technical University of Ukraine "Kyiv Polytechnic Institute", Kyiv, Ukraine

- Focus: Applied Physics and Mathematics, Solid State Physics
- Final grade: Excellent

## Total Impact

Patents: - 2

Publications: - 49

Presentation at international conferences and workshops - 25

## Skills

### Language proficiency:

English, German  
 Ukrainian, Russian

full professional  
 native speaker

### Soft-Skills:

Problem-solving  
 Creativity  
 Critical thinking  
 Continuous learning  
 Teamwork

### Work experience abroad:

US, France, Finland, Japan, UK, Ukraine

### Hobbies:

Chess, Music, Aikido, Judo, Skiing

Berlin, 09.09.2023



**References:**

**Dr. Martin Horn**

VP Device Development  
Scienion GmbH  
Wagner-Regeny-Str. 15  
Berlin 12489  
Germany

**Sandrine Koch**

Director HR Management  
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