

## **Employment History**

### **Forth-Rite Technologies (2012 to present)**

Technology start-up that provides the most sophisticated point-of-use RF measurement and delivered power control technologies for the semiconductor and display industry.

Japan Country Manager: development of the Japan market.

### **AKT, Inc., an Applied Materials company (2006-2011)**

AKT is the leader in CVD, PVD, and other production equipment for the flat panel industry.

Position of Account Technologist, Principal (G39), (“Senior Manager”) in Display & Solar Engineering, AGS, based in Japan; global responsibility

- Release of novel endpoint detection system for AKT-55K CVD; ET paper “best in Japan/Korea”.
- Penetration in key Japanese customer with UE (used equipment) LTPS system by demonstrating superior process performance.
- Management of process for UE CVD sales in LTPS display, solar, OLED, and X-ray detector market.
- Qualification of AKT CVD for F2 cleaning (environmental friendly, cost efficient), promotion inside and outside the company.
- Management in productivity improvement: solar and LTPS conversion, particle reduction
- Technical expertise/consulting/marketing: due diligence for M&A (module thinning), LTPS and micro crystalline process technology, CuMn PVD process.
- Observation of technology trends on conferences and trade shows.
- After sales marketing (2006-07): planning of a laboratory in Osaka for AOP'07
- Change Management: initiated environmental CSR activity for AKT Japan.

### **Unaxis Japan Co., Ltd, Displays Division (1997-2005) – renamed to Oerlikon**

Unaxis was a provider of thin film production systems for semiconductors, flat panel displays, data storage devices.

Deputy Head of Laboratory, Butchoudairi (last position): Osaka Laboratory (1999-2005)

- Achieved large order from pioneering OLED manufacturer by successful process development in Osaka laboratory.
- Development of new business through early stage work with key Japanese customers
- Management of customer and internal R&D projects, engineering and demonstration of processes on a CVD production tool to Asian customers in the Osaka lab for poly-Si TFT, amorphous Si TFT, and solar cell applications.
- Projects of joint research with the Tokyo University of Agriculture and Technology in the development of LTPS technology.
- Presentations at conferences and industry shows.
- Technical liaison between Japanese customers, headquarters and European R&D center (i.e. system specifications, demos, and environmental issues).
- Marketing research, business plan, formulation of strategy for new projects.
- Set-up of Osaka Laboratory in 1999. Planning of yearly laboratory budget.

### Sales Engineer: Sales Group of the Displays Division (1997-1998)

- Achieved sales of first display dry etching tool (technical sales).

### **Fujitsu Laboratories Inc. (1997)**

Experimental research at Fujitsu Laboratories, Quantum Device Laboratory, as NEDO research fellow in quantum microstructures (semiconductors).

### **The Tokyo University (1991-1996)**

Research as research fellow at three laboratories of The University of Tokyo: Quantum Microstructure Devices Laboratory (RCAST), Photonics (RCAST), and Megagauss Laboratory of the Institute for Solid State Physics (ISSP).

- Experimental research in quantum microstructures (semiconductors).
- Growth (MBE) and fabrication of 2 dimensional quantum structures.
- Experiments in pulsed high magnetic fields up to 40 Tesla.

### **Education and academic degrees**

- Ph.D. in Physics at the University of Konstanz (“magna cum laude”) in 1991.
- Master of Physics at the University of Kaiserslautern in 1986.

1987-91 Ph.D. student at the Max-Planck Institut für Festkörperforschung; High Magnetic Field Laboratory, Grenoble, France. Ph.D. thesis: *High Magnetic Field Electron Spin-lattice Relaxation in a Diluted Magnetic Semiconductor: CdMnTe* (Hartung-Gorre Verlag, Konstanz, 1991).

1982-86 Graduate student at the University of Kaiserslautern in physics, Teaching Assistant (1984-86). Master thesis in the field of molecular laser physics.

1981-82 Graduate student at the University of Oregon, USA, in physics (Teaching Assistant).

1979-81 Undergraduate studies of physics at the University of Hannover.

1978-79 German military service (draft).

1978 German Abitur (High School Diploma).

### **Languages, publications and international experience**

- Native German, near-native reading and speaking of English, French, and Japanese. Communication with customers and partners, presentations, and publications in all 4 languages.
- Extensive publishing track record in scientific journals and presentations at international conferences in the academic and industrial field.
- International experience: 21 years in Japan, 5 years in France, and 1 year in USA.

### **Scholarships and honors**

- AKT 2006 Presidential Award
- Unaxis Japan President Prize (2001).
- European Union *Science & Technology Fellowship Programme* (1995-96).
- Hitachi-endowed chair for Quantum Materials at the University of Tokyo, Research Center for Advanced Science and Technology (RCAST).
- *Cusanuswerk* scholarship (Germany).

### **Other interests and activities**

Aikido (fourth black belt), ballroom dancing, and arts (homepage: TMSartworld.com - contains own art and also list of publications).

Arts management: organization of 3 successful art exhibitions for paintings of Theo Strutz (father) and Maria Strutz in Osaka in 2011, 2012, and 2013.