



NAME

Electrical Engineer

PROFILE

Competent and highly motivated engineering professional with the ability to analyse complex engineering problems, evaluate and recommend effective alternatives. First-rate academic background in electrical engineering, specializing in electronics and information engineering, as well as comprehensive knowledge of designing, developing and maintaining electrical and electronic systems.

Strong work ethic with excellent communication skills and experience collaborating with colleagues and management.

Seeking role as Electrical Engineer where I could use my knowledge and experience to make a valuable contribution to the organization in terms of development, design, electrical installation and maintenance.

WORK EXPERIENCE SUMMARY

- 2011–2012 **Engineering Research (Research Fellow)**
BRANDENBURG UNIVERSITY OF TECHNOLOGY COTTBUS, GERMANY

- 2009–2010 **Electrical Engineer (Internship)**
MIELE, GERMANY

CORE COMPETENCIES & AREAS OF EXPERTISE

- Electrical and Electronic Systems ▪ Designing, developing and maintaining systems
Examples include: power amplifiers, microphone arrays, control of wind tunnels, battery storage, electrical vehicle virtual storage

- Design Specifications and Reports ▪ Reading electrical design specifications and technical drawings, creating designs for new electrical/electronic systems, creating reports and presentations for senior management

- Languages ▪ Fluent in English, German and Russian with a basic knowledge of Japanese

EDUCATION

- 2005 – 2011 BRANDENBURG UNIVERSITY OF TECHNOLOGY COTTBUS, GERMANY
Dipl.-Ing. (equivalent to B.Sc and M.Sc in Electrical Engineering)
Specializing in Electronics and Information Engineering

Topic of Thesis: Acoustical position calibration of microphone arrays
The position of each of the 64 microphones of the academic project microphone was determined with an elaborated algorithm through the knowledge of the traveling time of sound. Sparks were generated randomly in the 3-D-space and the traveling time from each spark to the microphones was

captured. A program for getting the sound traveling time from multiple sparks to the microphones and a program for determining the position of the microphones through the knowledge of sound traveling time were developed and written with python. The developed algorithm for determining the position was simulated and tested. The average position accuracy of the developed algorithm was founded by 5.63 mm.

Academic Projects:

- Implementation of macro model of monolithically integrated power amplifier.
- Development and construction of microphone array with 64 microphones.
- Enable the control of the wind tunnel with a PID regulator of a frequency converter.
- Motor Competition 2012 http://www.youtube.com/watch?v=vVxxMSO_IIU

Relevant Coursework: Signals and Systems, Electronics, Integrated Circuit Design, Mobile Communication Systems, Media Technology, Microprocessors, Communication Transmission Technology, High Frequency Techniques, Energy Conversion, Numerical Control and Robotic Systems, Field Theory – Electrodynamics, Communication Systems, Power Electronics, Human – Computer – Interaction

WORK EXPERIENCE

2011–2012 BRANDENBURG UNIVERSITY OF TECHNOLOGY COTTBUS, GERMANY
Research Fellow

- Developed a concept for building a virtual battery storage composed of 15 electrical vehicles and 15 charging stations
- Diagnosed suitable protocols for the communication and looked through relevant national standardizations for electrical vehicle virtual storage systems
- Installed measuring device 7KM PAC4200 (SETRON SIEMENS) and established communication to the control station
- Reviewed PCL communication for inclusion in communication methods
- Read and implemented electrical design specifications and technical drawings
- Wrote reports and created presentations for partner and chair staff

2009–2010 MIELE UND CIE. KG IN GÜTERSLOH, GERMANY
Electrical Engineer

Miele develops, produces, and markets premium home appliances and commercial appliances for laundry, washing, cleaning and disinfection.

Worked closely with electrical engineers in developing hardware and software to detect boil over on the plate of a ceramic glass hob. Sensors and a microprocessor were used to gauge the mean temperature of the bottom of a saucepan from 20 - 400 degrees. Tests and evaluations helped to improve schematic, circuit board (EAGLE) and the program in C++. A high temperature accuracy of under 1.5 degree was attained.

LANGUAGES

- English (fluent)
- German (fluent)
- Russian (fluent)
- Japanese (basic)

TEACHING

Current teaching includes tutoring students in electrical engineering and giving Maths lessons to Secondary School children to improve their mathematical skills (Theodor-Fontane Secondary School, voluntary work, started Jan 2012).

PROFESSIONAL MEMBERSHIP

VDE Association for Electrical, Electronic and Information Technologies (Germany)

IT

- Advanced Design System
- Cadance
- PSPICE
- EAGLE
- Target3001
- Wolfram Mathematics
- Python
- C/C++
- TurboPascal
- Assembler
- Maple
- Linux Debian
- Matlab
- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- OpenOffice
- Evolution

PERSONAL INFORMATION

Address:

Email:

DOB:

Mobile:

+

Nationality:

PERSONAL INTERESTS

- Sailing
- Amateur radio
- Swimming
- Traveling
- Volleyball
- Theater
- Kung Fu
- Reading

REFERENCES

AVAILABLE ON REQUEST