

Curriculum Vitae

Personal Data

Surname: Shang

Given Name: Fei

Date of Birth: 05/13/1981

Nationality: China

Sex: Male

Tel: 1-312-888-5718

Email: fshang2@hawk.iit.edu

Address: 22D, Siegel Hall, 3301 South Dearborn, Chicago, IL 60616

Work Experience

Infineon Integrated Circuit (Beijing) Co., Ltd

2010.10- 2013.6

Dept.: Quality Management, as a Senior Quality Management Engineer, IGBT Failure Analysis

Responsibility:

- √ Performing failure analysis of IGBT modules from different customers in China
- √ Explaining the failure signature to the customers and discussing failure root cause of the modules
- √ Performing failure analysis of IGBT stacks from different customers in China
- √ Taking part in the setting up and maintenances of the FA lab
- √ Manipulating machines like X-Ray machine and ultrasonic microscope to perform the analysis of the IGBT modules
- √ Familiar with the process of X-Ray machine permit application and Chemical permit application

Accomplishments:

- √ 3 months of training in Germany, learning a totally new technique, reading hundreds of reports for information. Working ability is appraised by my boss.
- √ High efficiency and quality for FA cases, solving hundreds of cases within half a year, helping customers for improving the design and production
- √ Excellent in using X-Ray machine and ultrasonic microscope
- √ Lab equipment maintenance, especially for X-Ray machine, ultrasonic microscope.
- √ Providing professional analysis for key customers, such as ABB, Alstom, Siemens, Danfoss and so on.
- √ Helping customers to solve the application problems

Beijing Accuenergy Technology Co., Ltd

2005.4-2010.6

Dept.: R&D Center, as a Product Develop Manager

Responsibility:

- √ Member of technique committee in company, in charge of establishing R&D projects, management system of R&D center.
- √ 5-year experience in product design, took part in many key projects in the company.
- √ Designing products including: Power Meters, Watt-hour Meters, Motor Protection Unit, Residual Current Monitor and Network Communication Module.
- √ Familiar with the whole process of product development, including design, manufacture and product authentication.

- ✓ In charge of learning important and new technique, training engineers.
- ✓ High-level in application of MCUs, both of hardware and firmware design. Rich experience in EMC design of PCBs.
- ✓ Excellent management experience, leading a group conducting R&D work.
- ✓ Responsible for developing OEM products for GE.
- ✓ Knowledge and experience in product manufacture.
- ✓ Responsible for recruitment for R&D center.

Accomplishments:

- ✓ Managing a group of 7 engineers for product development
- ✓ Developing more than 7 types of products, mainly used for power grid monitoring and automation
- ✓ Directing the application of MCUs, including the peripheral hardware design, firmware design, Real-time Operating System (RTOS) development
- ✓ Getting the fastest promotion in the company, from the assistant R&D engineer to the product design manager within 3 years.

Research Experience

“High Power Factor Rectifier for Aerospace” 2004.6-2004.9
 Directed by Professor Andrew Forsyth, University of Birmingham

“Solar Tracker” 2003.1-2003.6
 Directed by Professor Jianwen Wu, Beihang University

School Education

Illinois Institute of Technology 2013.8-
 Degree Seeking: PhD in Electrical Engineer
 Research: Application of Wide Bandgap Devices in EV and HEV

The University of Birmingham 2003.9-2004.12
 Major: Power Electronics & Drives
 Degree: M.Sc. with Distinction
 GPA :3.9 Ranking: 1/20

Beihang University (BUAA) 1999.9-2003.6
 Major: Electrical Engineering
 Degree: Bachelor’s
 GPA: 3.5 Ranking: 14/400

SKILLS & TRAINING

- ✓ IGBT module failure analysis methods, Quality Management
- ✓ Application of MCU, DSP, RTOS
- ✓ R&D process and Product Manufacture
- ✓ Team leader