

# Xueshan Zhang

Master of Science. **Nanoelectronics** 

- 20.08.1994
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### Social Network -



### About Me —

- Goal-oriented team player and deadline catcher;
- Able to work with multiple tasks and multi-cultural background;
- Solid knowledge of programming tool and environments, e.g Linux, python;
- Intensive experience with embedded firmware

### Interests -

Photography



Music

Fitness





### **Education**

Master of Science, Nanoelectronics GPA: 13.6/20.0 (Cum Laude)

10.2018 -Technische Universität Dresden (TU Dresden) Dresden, Germany 02.2020 In-depth studies on electronics technology, e.g. 'Molecular Electronic', 'Nano Optics' and etc. 09.2017 -Katholieke Universiteit Leuven (KU Leuven) Leuven, Belgium Take in fundamental and also state-of-art knowledge in semiconduc-02.2020 tors field, e.g. 'Semiconductor Devices', 'Integrated Circuits Packag-

ing' and 'Electrical Components, Circuits and Sensors' and etc.

Bachelor of Engineering, Material Science and Engineering GPA: 3.35/4.0 (Top 20 %)

09.2013 -University of Jinan (UJN) Jinan, China 07.2017 Enhanced understanding of material science and engineering by courses 'Materials Physics', 'Material Science Foundation' and etc.

## 🕹 Work Experience

01.2021 -Until Now

### **SSD Validation Engineer (Yangtze Memory Technologies**)

Shanghai, China

Tasks & Achievements:

- Evolve with new products validation via test program before ramping to volume manufacturing;
- Design test strategy, and based on that develop python scripts for validating SSD product quality;
- Do failure analysis with the cooperation of various teams and also firmware policy;

#### Learning Outcomes:

- Concurrent programming, and Parallel computing;
- Firmware policy and Nvme;
- Git distributed version control system;
- Linux operating system, common shell cmds and shell scripts;

06.2020 -12.2020

#### **Process Support Engineer (Applied Materials)**

Jinan, China

Tasks & Achievements:

- Inspect early phase products with eBeam inspection and metrology
- Process obtained graphics via edge / are segmentation, and realize rough binning via crude decision trees;

#### Learning Outcomes:

- Image processing, e.g. edge / area segmentation methods;
- Crude decision trees for rough binning;
- e-Beam tool mechanical structure and physical theories behind;

### **Certificates**

01.2017 Toefl (Score: 92) Jinan, China 12.2016 **GRE** (Score: 318, 3.5) Jinan, China

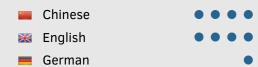
## Awards

02.2020	Cum Laude Graduate	Lei	uven, Belgium
07.2017	All-Round Development Scholarship - $1^{st}$ Prize	(1/41)	Jinan, China
06.2017	Bachelor Thesis Competition (Department Leve	elor Thesis Competition (Department Level) - $1^{st}$	
	Prize	(10 %)	
08.2015	tional English Competition for College Students Ji		Jinan, China
	(NECCS) - Type C - $1^{st}$ Prize	(5 %)	

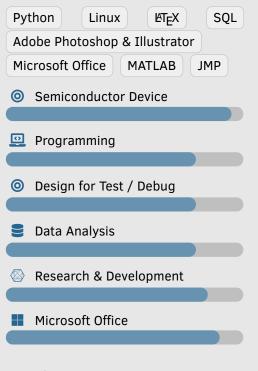
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Master of Science, Nanoelectronics

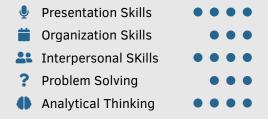
## Languages



## Hard Skills -



## Soft Skills



## **Projects**

### Germany

04.2019 – 10.2019 Investigating High-Performance Semiconductor

Coating Recipes on a mechanically flexible, plastic CFAED, Dresden substrate

Tasks & Achievements:

- Design semiconductor devices architecture, manufacture it under certain flow and later use related equipments to evaluate its functionality and reliability;
- Utilize excel VBA or Origin script to do device failture analysis, optimize process flow to improve products performance and yield.

#### Learning Outcomes:

- Device failure analysis;
- Batch data processing by using Excel VBA and Origin;
- LATEX scripting language.

11.2018 – 04.2019

## Thermo-Optic Effect on Waveguide in Mach Zehnder Modulator

TU Dresden, Dresden

Tasks & Achievements:

- Mastered using script language embedded in simulation software 'Lumerical' in a short time to set up a previously designed integrated optics structure and related thermo-optic influence simulation model, reflecting in a way of 3D converged thermal gradient and calculated light modes;
- Proposed suggestions on how to optimize simulation for higher throughput and more accurate results.

#### **Learning Outcomes:**

- Knowledge of Finite Element Modelling;
- Research & development skills in integrated optics;
- Data visualization via MATLAB programming.

### Belgium

03.2018 – 05.2018

# Acoustic Characterization of PMUT for Gesture Recognization

IMEC, Leuven

Tasks & Achievements:

- Design for testing on PMUT arrays with semiconductor analysis equipment;
- Put forward advice on how to develop single PMUT performance while reduce cross-talk between neighboring PMUTs.

#### Learning Outcomes:

- Scenario and signal sensitivity analysis;
- Data visualization via MATLAB programming.

### **P** Reference

Singapore

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Applied Materials

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Belgium

Bart Sorée

KU Leuven Coordinator

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