

Xueshan Zhang

Master of Science. **Nanoelectronics**

- 20.08.1994
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Social Network -

- in Linkedin
- Github
- Git Page

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
- Cooking
- Music
- Fitness



m Education

10.2018 -

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. tronic', 'Nano Optics' and etc.	'Molecular Elec-		
09.2017 –	Katholieke Universiteit Leuven (KU Leuven)	Leuven, Belgium		
02.2020	Take in fundamental and also state-of-art knowledg	e-of-art knowledge in semiconduc-		
	tors field, e.g. 'Semiconductor Devices', 'Integrated Circuits			
	ing' and 'Electrical Components, Circuits and Sensors' and etc.			

Technische Universität Dresden (TU Dresden)

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

Validation Engineer (Yangtze Memory Technologies)

Shanghai, China

Tasks & Achievements:

- Involve in verification and validation the reliability of storage product before its mass production phase;
- Design for test via python, e.g voltage control, concurrent and parallel programming;
- Debug issues with collaboration between hardware and software, mainly on linux operating system, with required knowledge base on protocols, firmware, controller, PCIe topology and CPU architecture:

Learning Outcomes:

- Concurrent programming, and Parallel programming;
- Protocols, e.g PCIe, NVMe and etc.;
- Git distributed version control system, Jira project tracking software:
- Data analysis, e.g pandas, numpy, matplotlib and etc.;
- Linux operating system, e.g remote fetch and manage files;

06.2020 -**Process Support Engineer (Applied Materials)** 12.2020

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;

Q 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 Lev	el) - 1^{st}	Jinan, China
	Prize	(10 %)	
08.2015	National English Competition for College Stude	ents Jinan, China	
	(NECCS) - Type C - 1^{st} Prize	(5 ‰)	

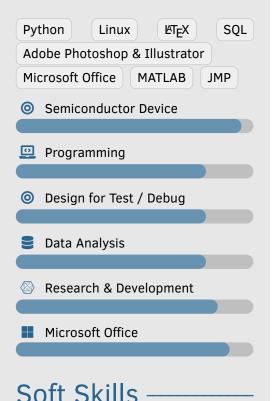
Xueshan Zhang

Master of Science, Nanoelectronics

Languages



Hard Skills -



Presentation Skills

Organization SkillsInterpersonal Skills

Problem Solving

Analytical Thinking

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.

O Referee

Singapore

Yiau Yee Chia

Applied Materials

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Stefan Mannsfeld

Center for Advancing Electronics

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Belgium

Steven De Feyter

KU Leuven

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