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## EDUCATION

### University of Stuttgart

Stuttgart, Germany M.S. in Mechanical Engineering / Materials and Production Engineering Research area: Machine Learning, Deep Neural Network, Computer vison, Reliability of Metals and Robotic

# Nanjing Tech University

*Nanjing, China* B.S.E. in Welding Technology and Engineering

### INTERN EXPERIENCE

### Robert Bosch GmbH

Intern | Engineering Center of Competence – Reliability of Metals (PS/EAT4)

- · Preparation, implementation and evaluation of fatigue test on Hairpins
- Fracture analysis with microscope and SEM on Laser welding joints
- · Data analysis and processing on N-S-Curve
- Optimize the analytical and experimental methods
- Literature retrieval and failure mechanism diagnose

### Kaichuanze Machinery Equipment Co., Ltd

- Intern CAD Drawing Ansys Simulation and analysis of Q345a welding temperature field and stress field **PROJECT EXPERIENCE** Stabilization of Zirconia by a co-milling process with yttria and neodymia Research Project | IFKB, Uni-Stuttgart Oct. 2018 – April 2019 Grinding and preparation of 1.5Y-1.5Nd-TZP ceramic powders · Preparation of sample with sintering, grinding, lapping and polishing Measure and analyze the Mechanical properties Compare with other TZP materials to verify and analyze the property A Deep Learning approach to traffic sign classification in fog via single pixel camera Master Thesis | ITO, Uni-Stuttgart Feb. – Sep. 2020 Drive lane detection and simulation of fog, self-build the dataset YOLO-V3 algorithm to detect the object on self-generated pictures
  - Compressive sensing and Design of coded aperture single-pixel camera
  - Customize a special dense layer and regularization to realize the function of SPC in Deep Network
  - Modified the architecture of Neural Network for the SPC
  - Adjust the learning rate and optimization algorithm and improve the performance

### **Professional Skills**

Skilled in Python, Tensorflow, AutoCAD and MS. Office

Familiar with OpenCV, PIL, Numpy, Pandas and Pytorch

Familiar with the knowledge on Machine Learning, Deep Learning, Computer Vision, etc.

### Language

English	Excellent both in written and spoken, CET-6
German	Excellent both in written and spoken, TestDaF 17



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Expect: Oct. 2017 – Oct. 2020

Sept. 2013 – June 2017

Stuttgart, Germany

Aug. 2019 – Feb. 2020

Nanjing, China Feb. – March 2017