

Yunchi Gu

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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 vision, Robotic and Automatic

Expect: Oct. 2017 – Oct. 2020

Nanjing Tech University

Nanjing, China

B.S.E. in Welding Technology and Engineering

Sept. 2013 – June 2017

INTERN EXPERIENCE

Robert Bosch GmbH

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

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

Stuttgart, Germany

Aug. 2019 – Feb. 2020

Kaichuanze Machinery Equipment Co., Ltd

Intern

- CAD Drawing
- Ansys Simulation and analysis of welding temperature field and stress field

Nanjing, China

Feb. – March 2017

PROJECT EXPERIENCE

Stabilization of Zirconia by a co-milling process with yttria and neodymia

Research Project | IFKB, Uni-Stuttgart

- Grinding and preparation of ceramic powder
- Preparation of sample with sintering, grinding, lapping and polishing
- Measure and analyze the Mechanical properties

Oct. 2018 – April 2019

A Deep Learning approach to traffic sign classification in fog via single pixel camera

Master Thesis | ITO, Uni-Stuttgart

- Drive lane detection and simulation of fog
- YOLO algorithm to detect the object separately
- Compressive sensing and coded aperture single-pixel camera
- Customize a dense layer and special regularization to realize the function of SPC
- Modified the architecture of Neural Network for the SPC
- Adjust the learning algorithm

Feb. – Sep. 2020

Professional Skills

Skilled in Python, Keras, AutoCAD and MS. Office

Familiar with OpenCV, PIL, Pandas, Numpy and Pytorch

Good theoretic knowledge on deep learning and computer vision

Language

English Fluent both in written and spoken, CET-6

German Excellent both in written and spoken, TestDaF 16