Yunchi Gu

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EDUCATION

University of Stuttgart   **Expect: Oct. 2017 – Oct. 2020**
Stuttgart, Germany
M.S. in Mechanical Engineering / Materials and Production Engineering

Nanjing Tech University   **Sept. 2013 – June 2017**
Nanjing, China
B.S.E. in Welding Technology and Engineering

INTERN EXPERIENCE

Robert Bosch GmbH   **Stuttgart, Germany**
Intern | Engineering Center of Competence – Reliability of Metals (PS/EAT4)   *Aug. 2019 – Feb. 2020*
- Literature retrieval and failure mechanism diagnose
- Preparation, implementation and evaluation of fatigue test
- Fracture analysis with microscope and SEM
- Assist the vibration test and resistance test
- Optimize the analytical and experimental methods

Kaichuanze Machinery Equipment Co., Ltd   **Nanjing, China**
Intern   *Feb. – March 2017*
- CAD Drawing
- Simulation and analysis of 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 ceramic powder
- Measure the granularity of ceramic powder
- Preparation of sample with sintering, grinding, lapping and polishing
- Measure and analyze the Mechanical properties

A Deep Learning approach to traffic sign classification in fog via single pixel camera
Master Thesis | ITO, Uni-Stuttgart   *Expect: Feb. – Sep. 2020*
- Drive lane detection and simulation of fog
- Compressive sensing and coded aperture
- Deep learning with Keras

Professional Skills

Skilled in Python, Keras, AutoCAD and MS. Office
Familiar with OpenCV, PIL and Numpy
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