Ee Heng Chen, Dr.-Ing.

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SUMMARY

- Computer scientist with 7 years of research experience in the field of computer vision.
- Experienced in developing convolutional neural networks for a broad range of low level computer vision tasks.
- Author and co-author of 7 publications in peer-reviewed conferences.
- Interdisciplinary collaborator with experience working in academic, industrial, and clinical settings.

EXPERIENCE

Munich Institute of Robotics and Machine Intelligence **April 2021 – current**

Post-doctoral Researcher

- Coordinated the collaboration between the institute and the German Heart Center Munich.
- Conducted research into understanding the actions of patients and clinicians in the intensive care unit using cameras.
- Supported the design and installation of a data-capturing system in the intensive care unit.
- Wrote 2 ethics proposals for patient data collection, which are subsequently accepted.

BMW Group **September 2017 – March 2021**

Ph.D. Candidate

- Conducted research and developed a system to determine if a traffic junction is safe to be crossed for ADAS and self-driving vehicles.
- Published 5 peer-reviewed conference papers in the field of intelligent vehicle systems.
- Supervised 2 interns, 1 bachelor-, and 3 master theses, which later led to 3 conference publications.
- Helped to maintain the compute clusters for research and prototyping at the R&D department.

EDUCATION

Technical University of Munich

Dr.-Ing. (Ph.D.) Computer Science: Department of Informatics 2022

M.Sc. Robotics, Cognition, and Intelligence: Department of Informatics 2017

Heilbronn University of Applied Sciences

B.Eng. Mechatronic and Microsystems: Faculty of Mechanics and Electronics 2015

SKILLS

Programming and Tools: Python, C++, Matlab, Linux, Docker, Kubernetes, Git

Computer Vision: Kinect, Realsense, OpenCV, Tensorflow/Keras, Pytorch, Scikit-learn, Object Detection, Semantic Segmentation, Optical Flow Estimation

Professional: Flexibility, Problem-Solving, Quick Learner, Strong Work Ethic

Languages: English, Mandarin, Malay, German

SELECT PUBLICATIONS (2 OF 7)

E. H. Chen, J. Zeisler, and D. Burschka. Direct Image Based Traffic Junction Crossing System for Autonomous Vehicles. In 24th IEEE International Conference on Intelligent Transportation (2021).

E. H. Chen, H. Hu, J. Zeisler, D. Burschka. Pixelwise Traffic Junction Segmentation for Urban Scene Understanding. In 23rd IEEE International Conference on Intelligent Transportation Systems (2020).