

CAN GIRACOGLU

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More about me : www.cangrc.com



EDUCATION

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| Technical University of Munich (TUM) (Munich, Germany) Master's degree in Informatics | October 2016 - January 2019 CGPA: 1.6/1.0 |
| Bilkent University (Ankara, Turkey) Bachelor's degree in Computer Science (ranked 7 th out of 188) | September 2011 - June 2016 CGPA: 3.75/4.0 |
| National University of Singapore (Singapore) Exchange Semester (Computer Science) | January 2015 - June 2015 |

PROFESSIONAL EXPERIENCE

Computer Vision Engineer at QuellTech GmbH March 2017 - Present (*Full-Time since April 2019*)

- High precision 3D measurements with laser scanners (in micrometers accuracy) on 3D point clouds
- Development and integration of automation solutions for the production lines in several countries such as Brazil, Italy, Czechia, Finland, Switzerland, Greece, Slovenia and gave support to many others
- Processing point clouds data of Gen<i>i</i>cam and GigEVision scanners using EyeVision EVT (a point cloud processing platform) and C++

PROJECTS AND EXPERIENCES

Master's Thesis in cooperation with BMW: Headlight Range Estimation using the DNNs
May 2018 - January 2019

- Analyze and preparation of a clean dataset using 1 million ADAS camera images (580 GB)
- Implementation of a baseline approach using traditional computer vision
- Evaluation of several DNN models (**published a conference paper at Intelligent Vehicle 2019**)
- ResNet101 with regression on dry road achieved the best results (*MATLAB*)

Unsupervised Odometry and Depth Learning for Endoscopic Robots Jan. 2018 - Feb. 2018

- Training of a public unsupervised learning model, first with KITTI images and then fine-tuning it with our experimental pig stomach images (*Python, Tensorflow*)
- After transfer-learning method, DNN gave promising pose predictions as 6-DoF motion and depth images using image sequences in our pig dataset (**published a conference paper at IROS 2018**)

Gesture Detection and Interpretation with Retorio Start-Up September 2017 - March 2018

- Definition of several gestures through coordinates of keypoints on the human body skeleton
- Processing the given video and creation of a log file for later to be interpreted
- Open-source Openpose Tensorflow model is used to extract coordinates (*Python, OpenCV*)

Hand Motion Detector for X-Ray (Computer Vision) November 2016 - December 2016

- Development of a video processing algorithm to detect and visualize unwanted movements of patients under X-ray (*MATLAB*)