

# Yue, Zhenrui

Vogelweidestr. 5/114, 81677 Munich, Germany  
yuezrhh@gmail.com, zhenrui.yue@tum.de  
+49 15257518216, +86 13531845570



## EDUCATION

<b>04/2019 - Present</b>	<b>Technical University of Munich</b> <i>M.Sc., Robotics, Cognition, Intelligence</i> <ul style="list-style-type: none"><li>• Current GPA: <b>1,0 / 1,0</b></li><li>• Academic exchange at University of California, San Diego from Sep. 2019 – Mar. 2020</li><li>• Main courses: Robotics, Robot Motion Planning, Artificial Intelligence, Machine Learning, Computer Vision</li></ul>	<b>Munich, Germany</b>
<b>10/2015 - 03/2019</b>	<b>Technical University of Munich</b> <i>B.Sc., Mechanical Engineering (Mechatronics and Information Technology)</i> <ul style="list-style-type: none"><li>• Main courses: Mathematics, Physics, Mechanics, Electronics, Chemistry, Material Science, Product Development, Information Technology, Software Engineering, Automation, Control Theory, Automotive Engineering</li><li>• College Entrance Exam (in China): 646/750, ranked 2036<sup>th</sup> in over 350.000 participants (<b>Top 1%</b>)</li></ul>	<b>Munich, Germany</b>

## WORK EXPERIENCE

<b>11/2018 - Present</b>	<b>Siemens AG</b> <i>IT System Working Student</i> <ul style="list-style-type: none"><li>• Support the team with sourcing strategy and purchasing projects (Category: Production Equipment)</li><li>• Design a web crawler (Python) for automatic extraction of machine specifications and equipment selections</li><li>• Develop MS-Office Add-ins (JavaScript and VBA) for generation of docs, visualization and access to database</li></ul>	<b>Munich, Germany</b>
<b>11/2017 - 05/2018</b>	<b>Volkswagen Group China</b> <i>Project Management Intern</i> <ul style="list-style-type: none"><li>• Managed and supported various EA211 engine QA projects (Models: 1.2TSI, 1.4TSI, 1.5MPI)</li><li>• Reviewed EA211 engine technical change requests, conducted risk analysis with Procurement and R&amp;D</li><li>• Designed a software (Java) for project milestones and task-reminding and VBA-programs for office automation</li></ul>	<b>Beijing, China</b>
<b>06/2017 - 09/2017</b>	<b>Technical University of Munich</b> <i>Student Assistant</i> <ul style="list-style-type: none"><li>• Developed and maintained database system for doctoral student ID management</li><li>• Conducted researches, presented concepts and organized courses/seminars for PhD students</li><li>• Supported the university team in public/administrative affairs and homepage development &amp; Maintenance</li></ul>	<b>Munich, Germany</b>

## SELECTED PROJECTS

<b>04/2019 - 08/2019</b>	<b>Autonomous Navigation and Parking based on 2D-LiDAR SLAM</b> <ul style="list-style-type: none"><li>• Applied SLAM-Algorithm with a RC-Auto with various sensors, 2D LiDAR and XBOX Controller</li><li>• Implemented ROS (Robot Operating System) Navigation System and Hector-SLAM on Raspberry Pi 3</li><li>• Developed various ROS nodes (C++, Python) for driving function, data exchange, path following, PID and EKF</li><li>• Integrated hardware &amp; software components and deployed on RC-Auto and Linux-Client for mapping visualization</li></ul>
<b>06/2018 - 12/2018</b>	<b>Visualization and Comparison of XML Documents</b> <ul style="list-style-type: none"><li>• Designed a program (Java) for visualization and comparison of XML documents (Tree, Graph, Chart etc.)</li><li>• Compared and developed demos with visualization framework: GraphStream, JFreeChart, JUNG and Prefuse</li><li>• Implemented the visualization software with Prefuse toolkit and optimized the built-in XML-Parser for PLCopen-XML</li></ul>

## SKILLS & INTERESTS

<b>Languages</b>	<b>Native in Mandarin and Cantonese, proficient in English and German</b>
<b>IT Skills</b>	<b>MS Windows, Office, Linux / Ubuntu, macOS and CAD (Inventor, CATIA)</b>
<b>Coding</b>	<b>Proficient in Java (3 yrs), Python (2 yrs); familiar with C++, SQL, VB/VBA; previously used C, MATLAB, JSON, HTML5, JavaScript, CSS3; Experiences with AWS EC2, LAMP stack, ROS, Android Studio</b>
<b>Organization</b>	<b>Elite Network of Bavaria (Academic Honor Society), CSSA Munich (Society of Chinese Scholars &amp; Students)</b>

## HONORS & AWARDS

<b>04/2017 - Present</b>	<b>Max Weber Program of the State of Bavaria (Bachelor &amp; Master)</b> <ul style="list-style-type: none"><li>• Scholarship program from the German Academic Scholarship Foundation for academic achievements</li><li>• Including semester allowances, financial aid for exchange, summer schools, seminars, courses and further activities</li></ul>
<b>09/2018 - Present</b>	<b>Audi Campus Ambassador Scholarship</b> <ul style="list-style-type: none"><li>• Scholarship from Audi China based on academic excellence and campus services at TUM</li></ul>