

KEVIN MA YUCHEN

Email: yuchen_ma@mymail.sutd.edu.sg Mobile: 83939928

GitHub: <https://github.com/Kevinskwk> LinkedIn: www.linkedin.com/in/kevin-ma-yuchen-308543179

EDUCATION

Singapore University of Technology and Design (SUTD) <i>Bachelor of Engineering (Engineering Product Development), Honours</i>	Singapore May 2019 to 2022(expected)
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- Focused track: Robotics
- Full Scholarship awarded by Sembcorp Industries to top 5% students from high schools in China

WORK EXPERIENCES

AutoCore Intelligent Technology (Nanjing) <i>Intern, Assistant Deep Learning Engineer</i>	Nanjing, China Aug 2019 to Sept 2019
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- Performed sensors testing and data collection on Robot Operation System (ROS) for lidar mapping of self-driving cars
- Implemented data augmentation with Python and OpenCV for deep learning data set expanding
- Performed data set making with data augmentation and YOLO (You Only Look Once) deep learning model training for traffic light and parking lot detection for self-driving cars

ACADEMIC RESEARCH PROJECTS

Singapore University of Technology and Design <i>Design and Development of a Compact Transformable Aerial Craft, Student Researcher</i>	Singapore July 2019 to Present
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- Implementing Reinforcement Learning with Gym and Ray for a transformable dual-rotor aerial craft controlling system model training to get a more robust controlling system
- Collaborating with Professor to study and research about the physical mechanism and design considerations behind Transformable Dual-Rotor Aerial Craft

SUTD Organisation of Autonomous Robotics (SOAR) <i>SUTD Doggo Project, Mechanical Engineer</i>	Singapore Aug 2019 to Present
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- Modifying and Assembling the structure of a Quadruped Robot that can be implemented with Depth Camera and perform autonomous navigation
- Collaborated with multiple suppliers and procured components for the robot with 20% lower price

LinoRobot Project, Software Engineer	May 2019 to July 2019
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- Building a two-wheel driven robot that is implemented with tele-operation, Simultaneous Localisation and Mapping (SLAM), and autonomous navigation based on Robot Operation System (ROS).
- Collaborating with a team of eight to finish debugging and trouble-shooting and took down detailed professional documentation.

CO-CURRICULAR ACTIVITIES

SUTD Organisation of Autonomous Robotics (SOAR) <i>Secretary</i>	Singapore Jun 2019 - Present
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- Planning for weekly sessions of the club and external events and keep track of the logistics of both internal and external events in collaboration with the SOAR executive committee
- Working closely with President and Vice President in administrative management of the club
- Processing documents required for activities and log down meeting notes, manage and update the club's folders, documents and records

Tanjong Pagar Community Club Youth Executive Committee Soccer Team <i>Event Organiser</i>	Singapore Aug 2019
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- Organised a half-day-long team bonding event for more than 80 team members and received positive feedback from attendees
- Collaborated directly with the Ministry of Education (Singapore) to engage the new scholars by giving speeches and conducting sharing sessions in a connecting event for scholars

ADDITIONAL INFORMATION

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- Technical Skills: C++ and Python Programming, Linux, Robot Operation System (ROS), OpenCV, Machine Learning, Arduino, SolidWorks, 3D Printing
 - Language Proficiency: English written and spoken (Fluent), Mandarin written and spoken (Native)