SHEN CHEN

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SUMMARY

Passionate computer engineer, able learn new skills fast for application. Interested in robotics and mobile autonomous systems.

EDUCATION

Renaissance Engineering Programme, Nanyang Technological University, Singapore   Aug 2017 – Dec 2021 (Expected)
- **Bachelor of Engineering Science (Computer Engineering)**
- **Master of Science in Technology Management**
- CGPA of 4.64/5.00

Electrical Engineering and Computer Sciences, UC Berkeley, California   Aug 2019 – May 2020
- Courses Taken:

EECS 127 Optimization Models in Engineering	EL ENG C128 Feedback Control Systems	EECS 192 Mechatronics
EL ENG 122 Communication Networks	EECS C106A Introduction to Robotics	

Raffles Institution, Singapore   Jan 2009 – Dec 2014
- Graduated with a UAS of 88.75/90

WORK EXPERIENCE

RDD Research, Dyson, Singapore
Robotics Research Intern (Mechatronics)   Jun 2020 – Aug 2020
- Developed sensing solution based on requirements and considerations
- Integrated solution into existing robotics research infrastructure

Cloud Application and Platform Lab (CAP), Nanyang Technological University, Singapore
Research Intern   May 2019 – Aug 2019
- Developed and tested a model-based deep reinforcement learning framework, Baconian

Shell EcoMarathon, Nanyang Technological University, Singapore
Autonomous System Team Member   Dec 2018 – May 2019
- Planned overall autonomous system architecture
- Designed auxiliary board to execute Jetson TX2 commands via ROS Serial and feedback control

PROJECTS

- Programmed a CrazyFlie Drone with a path planning algorithm to land on a Turtlebot based on an OptiTrack mocap system and ROS
- Created an autonomous car capable of racing along a track with a camera sensor based on the BeagleBone Blue
- Developed a pair of autonomous robots capable of playing robot soccer based on the Arduino-Compatible Teensy 3.5
- Set-up a bearing levitation system with feedback control and Simulink

CO-CURRICULAR ACTIVITIES

Makers' Lab
Vice Chairperson, Technical Head, Technical Committee Member   Aug 2017 – Dec 2021 (Expected)
- Organized events and workshops to introduce NTU students to the maker movement and prototyping skills

AWARDS AND ACHIEVEMENTS

- Shell Imagine the Future Scenarios Competition 2018, 2nd Place
- Singapore Infocomm Technology Federation Awards 2014 – Best Student Project, Gold
- RoboCup Singapore Open 2012 & 2013 – 1st Robot Soccer Category, 1st Overall
- RoboCup Internationals 2011 – 2nd Individual, 2nd SuperTeam, RoboCup Junior, Robot Soccer Category

SKILLS

Programming Languages

C++	Python	Java + Kotlin	Dart	

Software Tools

Arduino	Autodesk AutoCAD	Solidworks	Siemens NX	Robot Operating System
Matlab	Bash	Android Studio	KiCad	Git VCS

Hardware Experience

Embedded Systems	Motor Control	Sensor Systems	Signaling (I^2C, SPI, etc.)	Laser Cutter
Power Tools	3D Printer	PCB Design		

Languages

English (Native Speaker)	Mandarin (Native Speaker)