Zhijie WANG

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Education

09/2019 - 12/2020 (Expected)	**University of Waterloo**, Waterloo, ON, Canada.
	M.Eng Electrical and Computer Engineering, Overall Averages: 92.25/100
09/2015 - 06/2019	**Beijing University of Posts and Telecommunications**, Beijing, China.
	B.E. Telecommunication Engineering, GPA:3.52/4.0

Research Experiences

11/2018 - 06/2019   **Research Intern**, *Megvii Technology Ltd.*, Beijing, China.

Research Intern at SLAM Group.
Mentor: Dr. Yichen Wei, Mr. Xiao Liu & Dr. Yijia He
- Researched on range finder's motion-blur and its effects on Point-to-line ICP (Iterative Closest Point). Resulted in a CN Patent.
- Implemented a laser-odometer calibration tool based on Canonical Scan Match and Maximum-likelihood with C++. https://github.com/MegviiRobot/OdomLaserCalibraTool

07/2018 - 09/2018   **Non-graduating Research Student**, *National University of Singapore*, Singapore.

Non-graduating Research Student at Unmanned System Research Group.
Superviosr: Prof. Ben M. Chen & Dr. Lin Feng
- Researched on continuous localization and mapping in low-light environments based on multi-sensors fusion. https://github.com/paulwong16/TVO-GridMap
- Researched on image enhancement for underwater tasks based on conditional Generative Adversarial Networks.

09/2017 - 06/2018   **Research Intern**, *Tsinghua University*, Beijing, China.

Research Intern at iVip Group.
Superviosr: Prof. Fei Qiao
- Particpated in ROS programming for a Semantic Visual SLAM system's test and evaluation.

Teaching Experiences

05/2020 - 08/2020   **Teaching Assistant**, *University of Waterloo*, Waterloo, Canada.

Teaching Assistant of ECE 203 (Probability Theory&Statistics1).
- Graded quizzes and exam.

Publications

Patents
- Xinjun Liu, Chao Yu, Fei Qiao, Fugui Xie, **Zhijie Wang**, **A Robot SLAM System towards Dynamic Environments**, *CN Patent* Application No. CN108596974A. Published.
- Yijia He, Xizhen Xiao, **Zhijie Wang**, Xiao Liu, **Motion Estimation Methods, Devices, Computer Equipment and Storage Medium**, *CN Patent* Application No. CN110824496A. Published.

Technical Experience

Languages	C++, Python, MATLAB
Softwares	ROS, OpenCV, Eigen, Ceres, LATEX, Git, Linux

Language Proficiency

English	**IELTS: 7** Reading: 7.5, Listening: 7.5, Speaking: 6, Writing: 6 (Jan 2019)