## Xiao(Barry) Liang

	Timo(Barry) Diang	
<u>barryliang521@</u>	gmail.com	parry-liang.github.io/resume/
SUMMARY	Seeking for a Job related to Robotics, Algorithm or Computer Vision F	
	• Skilled in C++, Python, MATLAB, ROS and OpenCV. (★★★★)	8
	● Familiar with Linux, PyTorch, Shell, Webots and Universe Robot (★	<b>★★</b> )
	<ul> <li>Experienced in Blender, Cuda, OpenMP, and V-REP Pro. (★★)</li> </ul>	,
	• Fluent in English and beginner level in Japanese.	
	<ul> <li>Interdisciplinary engineer, fully trained project experience with leader</li> </ul>	rship, nice group worker
<b>EDUCATION</b>	The University of Tokyo (UT), Tokyo, Japan	
	Member of Yamakawa Lab. (High Speed Flexible Robotics Lab)	
	M.S. in Mechanical Engineering (English Program) Sept 201	19 – Aug 2021 (expected)
	Shanghai Jiao Tong University (SJTU), Shanghai, China	
	University of Michigan – Shanghai Jiao Tong University Joint Institute	(UM-SJTU JI)
	B.Sc. in Mechanical Engineering (English Program)	Sept 2015 – Aug 2019
	Overall GPA: 3.77/4.00; Major GPA: 3.93/4.00 (ranking 2/58).	
INTERNSHIP	Computer Vision Engineer, Huawei Tokyo Research Center, Tokyo, Japa	n Oct 2020 -present
COURSES	Deep learning, Machine learning, Robot Manipulation, Data Science and M	Machine Leaning,
HIGHLIGHTS		_
RESEARCH	Dual Arm Cooperation Control of Diabolo Robot based on Real-Time	Visual Feedback
<b>EXPERIENCE</b>	-	
EAFERIENCE		Dec 2020 –present
	<ul> <li>Apply visual feedback to measure the 6D pose of diabolo in real time.</li> <li>Achieve basic spinning balance of the diabolo using dual-arm control</li> </ul>	
	Tracking and Catching of a Thrown Ring	
		June 2020 – Dec 2020
	<ul> <li>Proposed a marker-based 6D pose tracking algorithm using a high-speed</li> <li>Designed a catching point selection algorithm to make the robot accomp</li> </ul>	
	Design and Analysis of a Wheel-Leg Hybrid Robot with Novel Transfo	0 1
	Laboratory of Smart Solids and Structures @SJTU	June 2018 – Sept 2018
	• Designed a vehicle robot with actively transformed three-leg wheels	June 2010 – Sept 2010
	Conducted automatic control of wheel-transformation to pass through sa	and road and smooth road
SELECTED	CCD Camera Imaging (Silver Award)	
PROJECTS	VM450 Capstone Design @SJTU	Sept 2018 – Dec 2018
IKOJECIS	• Designed a software-based optical imaging model to analog CCD camer	•
	Compared small hole imaging and lens imaging and conducted feasibility	
	Motion Planning of Robot MORO: Roaming Obstacle Avoidance and C	
	VM467 Introduction to Robotics @SJTU	June 2018 – Aug 2018
	•Utilized the sensor system and SLAM algorithm to plan the path and con	_
	•Applied and compared the A star and Dijkstra algorithm in shortest path	
	A Spinning Bike-based Air Purification Device	
	VG100 Introduction to Engineering @SJTU	June 2016 – Aug 2016
	<ul> <li>Designed and manufactured an exercise bike with belt transmission</li> </ul>	
	• Designed and installed an air purification shell to pump out air through t	he filtration system
TUTOR	Undergraduate Education Office, UM-SJTU JI	
<b>EXPERIENCE</b>	Teaching Assistant @SJTU	Sept 2018 – Aug 2019
	<ul> <li>Worked as TA for one major course: VM395 Laboratory I</li> </ul>	
	Academic Advising Center, UM-SJTU JI	
	Student Advisor @SJTU	Sept 2017 – Aug 2019
	Provide academic advice to JI students	
	<ul> <li>Provide academic advice to JI students</li> <li>Hold workshops aiming to promote academic skills and share profession</li> </ul>	nal interests
SELECTED		nal interests Sept 2019- Aug 2021
SELECTED HONORS	<ul> <li>Hold workshops aiming to promote academic skills and share profession</li> </ul>	
	Hold workshops aiming to promote academic skills and share profession.  The Japanese Government's MEXT scholarship.  Shanghai Distinguished Graduates Award.	Sept 2019- Aug 2021 June 2019
	• Hold workshops aiming to promote academic skills and share profession.  The Japanese Government's MEXT scholarship.  Shanghai Distinguished Graduates Award.  National Scholarship (Twice, top 1% in SJTU).	Sept 2019- Aug 2021
	Hold workshops aiming to promote academic skills and share profession.  The Japanese Government's MEXT scholarship.  Shanghai Distinguished Graduates Award.	Sept 2019- Aug 2021 June 2019 Oct 2017, Oct 2018