

# Yutong LIU

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## EDUCATION

<b>The Hong Kong Polytechnic University (HKPU), Hong Kong</b>	<b>09/2019-07/2023(Expected)</b>
Electronic and Information Engineering - BSc (Hons)	
W GPA: 3.88/4.3	
Minor in Applied Mathematics	
CGPA: 3.83/4.3	

## RESEARCH

<b>Analysis of Privacy Policies of Applications Based on Deep Learning</b>	<b>07/2021-06/2022 (Expected)</b>
<i>Researcher and Developer</i> , Department of Computing	
<ul style="list-style-type: none"><li>Labelled the privacy policies to get familiar with data sets for Named Entity Recognition (NER).</li><li>Learned and applied some knowledge of deep learning, HanLP and NER.</li><li>Conducted data pre-processing to adjust data types which were appropriate for further research.</li><li>Gained a scholarship of HKD 7,000 and a grant of HKD 30,000 for the group.</li></ul>	
<b>Detection Technology of Privacy Risk Compliance of Applications Using NLP and Program Analysis</b>	<b>05/2021-08/2021</b>
<i>Student Helper</i> , Department of Computing	
<ul style="list-style-type: none"><li>Labelled over 2,000 privacy policies for further use.</li><li>My labels of high quality helped to ensure satisfactory results of the research.</li></ul>	
<b>Model Extraction Attack against On-device Speech Recognizer</b>	<b>01/2021-03/2021</b>
<i>Student Helper and Researcher</i> , Department of Electronic and Information Engineering	
<ul style="list-style-type: none"><li>Obtained text data of speech recognition from public data sets using Google Voice Assistant in Android Virtual Device.</li><li>Learned some algorithms of model extraction attack of the black box.</li></ul>	

## SELECTED COURSE PROJECTS

<b>Cargo Robot</b>	<b>09/2021-08/2022 (Expected)</b>
<i>Researcher and Developer</i> , Multidisciplinary Manufacturing Project, Department of Electronic and Information Engineering	
<ul style="list-style-type: none"><li>Learned how to combine sensors, drive motors and power supply with a microcontroller.</li><li>Designed and actualized a cargo robot that could load and unload goods and move along the given paths automatically.</li><li>Ensured the very accurate movements so that the goods could be transported to the given position using mechanical arms with fixed lengths.</li><li>Tried to apply deep learning to make the robot follow and avoid obstacles automatically.</li></ul>	
<b>Robot Car</b>	<b>09/2021-08/2022 (Expected)</b>
<i>Researcher and Developer</i> , Integrated Project, Dynamic Electronic Systems, Department of Electronic and Information Engineering	
<ul style="list-style-type: none"><li>Applied a PID controller to control a two-wheel car moving straight and reach the target velocity.</li><li>Used microcontrollers and Bluetooth blocks to remotely control the car.</li><li>Adopted sensors and microcontrollers to control the car moving along the given black line within a limited time, and the car stopping against the wall within a limited time and distance.</li><li>Used sensors and microcontrollers to play relay race of two cars along a given line without crashing in a limited time.</li><li>Commanded how to use C language to control Atmega328p and STM32F103.</li></ul>	

## ACHIEVEMENTS/AWARDS

2021/22 HKSAR Government Scholarship of HKD 80,000, HKSAR Government	2021
Dean's Honours List in 2020/21 academic year, Faculty of Engineering, HKPU	2021
Best Semester GPA Award in 2020/21 Sem 1, Department of Electronic and Information Engineering, HKPU	2021
Best GPA Award in 2020/21 Sem 1, Department of Electronic and Information Engineering, HKPU	2021
Best Semester GPA Award in 2019/20 Sem 1, Department of Electronic and Information Engineering, HKPU	2020
Dean's Honours List in 2019/20 academic year, Faculty of Engineering, HKPU	2020

## ACTIVITIES

<i>Internal Vice President</i> , Students' Union Chinese Mainland Students' Association, HKPU	04/2020-05/2021
Content: Managed a team of 15 secretaries. Co-finished a year plan of nearly 100,000 words. Organized activities for 900 members and provided useful information and advice for their daily life.	
<i>Student Assistant</i> , Department of Electronic and Information Engineering, HKPU	09/2021-11/2021
Content: Assisted the teacher in debugging electronic devices, capturing students' learning situations, and solving problems.	

## TECHNICAL PROFICIENCIES

Computer skills: C/C++, Python, MATLAB, MySQL, SolidWorks, AutoCAD, Office, Adobe PS, Adobe PR.
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- Languages: Mandarin (native), English (fluent), Cantonese (beginner).