Liangyawei Kuang (Kris Kong)

94 Calumet St, Boston, MA 02120

kuang.lia@northeastern.edu • (949) 232-2132

EDUCATION ******2016.8--2020.6 *Harbin Institute of Technology* (HIT), Harbin, China
Bachelor of Engineering in Mechatronics Engineering
GPA: **88.69**/100;
Rank:**26/389** (1st year); **34/356** (2nd year)
******2019.1-2019.6 *Hong Kong Polytechnic University* (HK PolyU), Hong Kong, China
One-semester exchange in Mechanical Engineering
GPA: **3.83**/4.5 (overload with 6 courses, and the regular load is 3 or 4 courses);
******2019.8-2020.6 *University of California, Irvine* (UC Irvine), CA, U.S.A.
Undergraduate final year visiting in Electrical Engineering and Computer Science
GPA: **3.24**/4.0 (overload for completing three degrees: electronic circuit design, communication system, and signal processing);
******2020.7-2021.5 *Northeastern University* (NEU), MA, U.S.A.
Thesis-based master candidate of Computer Engineering on Computer Vision, Machine Learning and Algorithms
GPA: **4.00**/4.0;
******2021.8-2023.6 *the Hong Kong University of Science and Technology* (HKUST), Hong Kong, China
Master of Philosophy on Robotics and Autonomous System

POSITIONS 2020.9-2020.12 **Graduate-course Teaching Assistant** (EECS7311: Two Dimensional Signal and Image Processing at Fall 2020), NEU

PROJECTS 2016.10-2017.4 **Multi-function** (moving and grasping) **Kitchen-Service Robot Design** (freshman design project), **leader**, HIT;
2017.6-2017.8 **Intelligent Transport Robot Building** (DIY an easy target robot) **based on** *Explorer Suite*, **leader**, HIT;
2018.3-2018.7 **Accurate Cable-Rack System based on *6-DOF* Parallel Grid System** (sophomore design and building project), **leader**, HIT;
2018.9-2019.1 **Inverted Pendulum based on Vision Control**, **feed-back part designing** (PID) **and hardware building** (3-D printing), **member**, *Institute of Intelligent Control and System*, HIT;
2019.1-2019.5 **Mountain Autopilot System based on 2-D lidar SLAM** (part of C/C++ coding for the control part, following a 1st year Ph.D.), HK PolyU;
2019.9-2020.6 **Mobile Car Navigation based on *Raspberry Pi 3 Model B* with *Arducam* and *Arduino*** (a beginner level project), **leader**, UC Irvine;
2020.9-2020.11 **UC Berkeley CS188 Pac-Man Projects** (world-famous AI projects based on python), NEU
2020.9-2020.12 **Mobile Robots Simulation Project based on ROS in Ubuntu** (world-famous turtlebot projects for the beginner on ROS), NEU

SKILLS **Programming Languages:** C/C++, MATLAB, Python, VHDL, Java, Linux
Software: Anaconda for Python, Visual Studio for C/C++, Matlab, JetBrains IntelliJ IDEA, Cadence, AutoCAD, Mathematica, SolidWorks, Keil, Multisim

HONORS AND AWARDS	**Champion**, *Freshman Basketball League Match of HIT*, **guard position**, Fall 2016;
	Excellent organizer for the *New Year's Eve* **of HIT**, Winter 2016;
	First Prize, **Excellent Science and Technology Innovation Projects of HIT**, **rank #1**, Summer 2017;
	Outstanding League Cadres of HIT at *May Fourth Youth Day*, summers of 2017 and 2018;
	Second Prize, **"Xin Rui" Cup Mathematics Competition of HIT**, **rank #4**, Summer 2017;
	Third Prize, **"Xin Rui" Cup Robotic-Challenge Competition of HIT, leader**, Summer 2017;
	Outstanding Prize, **Egg-Crash-Earth Structure Design Competition of HIT**, Summer 2017;
	Second Prize, **SMC scholarship of HIT**, Fall 2017;
	Second Prize, **National Collegiate Mathematics Competition**, Winter 2017;
	Second Prize, **People scholarship of HIT**, Fall 2017 and Fall 2018;
	First Prize, **Mechanical Principles Competition in Mechatronics Engineering(ME) School of HIT**, Spring 2018;
	Excellent Volunteer of ME School in HIT, Fall 2018;
	Meritorious winner of MCM (*The Mathematical Contest in Modeling***),** Spring 2019;
	Third Place, **HIT Robotic Summer School Competition,** Summer 2019

ACTIVITIES AND EXPERIENCE	2016.10-2017.1 **Director of the** *2017 New Year's Eve* **of the Mechatronics Engineering School and the Humanities School** (more than 600 students, teachers, and students' parents participated in), HIT;
	2017.6-2019.6 **Founder of the Academic-Special Dormitory**, HIT;
	2017.7-2019.1 **Founder and President of the** *ILS* **(Important learning Skills) Technical Community** (a group of 30 talented students, helping more than 500 students about their study issues), HIT;
	2017.9-2019.1 **Chief Lecturer of the** *"Lei Feng"* **Academic Support Group**, HIT

EXTRA	**Top ten progressive students in ME School of HIT (from 45% to top 10%),** Fall 2016-Summer 2017;
	Ranked as the only ME School exchange student to HK PolyU, 2018-2019 Semester 2;
	Ranked as the only HIT final-year visiting student to UC Irvine, Fall 2019-Spring 2020;
	Got three MS admissions from the NEU ECE department and several MS admissions from other universities as USC, UCD, etc.