

Lingxuan Tang

Yongchuan zone, ChongQing, 402160 China

Cell-phone: +86-15625292212, +852-97110226 E-mail: LingxuanTang@outlook.com

EDUCATION BACKGROUND

Ph.D. candidate: Advanced Design & System Engineering

2021.09-Present

Department of Advanced Design & System Engineering, City University of Hong Kong, Kowloon, Hong Kong.

Supervised by: Prof. DANG Chuangyin.

Scholarships and Financial Aids: Postgraduate Studentship (HK\$17,510 per month), Institutional Research Tuition Grant (HK\$3,508 per month).

Bachelor of Engineering: Automation

2017.09-2021.06

School of Mechanical Engineering and Automation, Harbin Institute of Technology (HIT), Harbin, China.

Overall GPA: 86.69/100

RELATIVE COURSES

Fundamental mathematics:

Linear Algebra and Analytic Geometry 91

Probability Theory and Mathematical Statistics 90

Functions of Complex Variable and Integral Transforms 96

Mathematical Analysis C 91

Control theory:

Automatic Control Theory B 90.06

Electric Circuits IB 90

Electronics:

Signal Analysis and Processing 90.2

AWARDS

- Best application paper award in Annual International Conference for Chinese Scholars in Industrial Engineering (CSIE2020).
- Special Scholarship of the International Exchange Program in 2019.
- Third Prize Scholarship for outstanding students of Harbin Institute of Technology (2019-2020).
- Third Prize Scholarship for outstanding students of Harbin Institute of Technology (2017-2018).
- Second Prize for the great performance in the Freshmen Year Project (2017-2018).
- Harbin Institute of Technology (2019) "national innovation training program for college students" - National Level.
- Third place in the first women's table tennis tournament in Harbin Institute of Technology (Shenzhen) in 2018.
- Third prize of "miniTED" speech contest of School of Information Engineering, Peking University (Shenzhen) in 2018.
- Outstanding Student Pioneer in Military Training in Harbin Institute of Technology (Shenzhen), 2017.

PUBLICATION

[1] Zhuozhu Jian, Fangcheng Zhu, **Lingxuan Tang**, "Research on Human Body Recognition and Position Measurement Based on Adaboost and RGB-D", *Chinese Control Conference July 2020*.

[2] **Lingxuan Tang**, Saijun Shao, Gangyan Xu, "Facility location optimization for front distribution center in pharmaceutical logistics with scenario modelling", Annual International Conference for Chinese Scholars in Industrial Engineering (CSIE2020), awarded as the "Best Application Paper".

RESEARCH EXPERIENCE

Intelligent Medical Mobile Service Robot

Jan.2019 – Dec.2020

National level project, *National College Students' innovation and entrepreneurship training program*

- Designed and developed a medical service mobile robot based on laser SLAM and visual recognition and tracking in the hospital to provide route planning, online chat and transportation tasks.
- Built a low cost medical mobile service robot platform and realized flexible movement with differential drive.
- Applied OpenCV cascade classifier to recognize faces and realized the identity authentication of patients and doctors in the hospital indoor environment.
- Wrote a report titled *Medical service robot based on laser SLAM and visual recognition tracking*.

Analyzing Sensors for PM2.5 and Ozone

Sept.2017 - Jun.2018

Harbin Institute of Technology, Shenzhen

- Acquired the original data of the sensor through the serial port debugging assistant and the serial port drive.
- Performed a sensor evaluation experiment in Shenzhen Longgang laboratory, obtained the data of precision instruments and sensors.
- Screening data and processing abnormal data, grouping data according to time, taking out the measured values of the precise instruments at the same time period, the same air condition and the measured values of sensors, and using the least square method to correct the sensor coefficients.

TEACHING & INTERNSHIP

Sep. 2022 – Dec. 2022: Teacher in ADSE5010 Eng Mgt Princpls and Concepts at CityU, Hong Kong.

Jan. 2023 – Apr. 2023: Teaching in ADSE2100 Engr. Statistics & Exper'ation at CityU, Hong Kong.

Jul. 2020 – Sep. 2020: Algorithm Intern in CommaTech, Shenzhen, China.

SKILLS

- Programing skills: Python, Gurobi, C, MATLAB, OpenCV.
- Engineering drawing software: autoCAD.
- Electrical software: Pspice, PCB editor, Multism.
- Audio production software: Adobe Audition.