

JORDAN HONG

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EDUCATION

2nd year Engineering Science, University of Toronto

B.A.Sc. expected in 2023

PROJECTS AND DESIGN WORK

Autonomous Car Charger Deliver Robot 2020

- blah

StayEnglightened, MakeUofT 2020

- blah

Automated Dough Fermentation Tester 2019

- Developed device prototype for dough fermentation tester using computer vision(OpenCV) and image processing as part of Praxis group project. Personal contribution entailed embedded system design with Raspberry Pi module.
- Represented University of Toronto Engineering Science students to showcase in the *2019 International Engineering Science Consortium*.

Android Productivity Application-Finite 2018-2019

- Collaborated with a partner to develop a time-productivity Android application. Personal work entailed backend text and image data storage. (Launched on Google Play store December 2018).

RESEARCH EXPERIENCE

Advanced Composite Characterization Lab, University of Toronto 2019-05 - present
Undergraduate Researcher with Prof. Ning Yan and Postdoctoral Fellow Nicolas Tanguy
Topic: Polyaniline-Nanocellulose-based green films for ammonia sensing applications.

- Developed and optimized chamber and electrical testing environment for monitoring chemoresistance of green semiconductive films.
- Investigated compositions of different nanomaterials to optimize sensing performance of nanocellulose-based films.
- Developed Python script to automate data association and perform analysis.

SKILLS

Programming: Python, C, Java, Javascript, MATLAB

Embedded Systems: Verilog, Raspberry Pi, Arduino

Design: HTML, Processing3, Android Studio

Developer tools: Unix, Vim, Git

AWARDS

Faculty of Engineering Dean's Honour List, University of Toronto 2018, 2019, 2020

Faculty of Engineering Admission Scholarship, University of Toronto 2018-09

York Mills CI Gold Award, York Mills Collegiate Institute 2018-06

Award of Excellence-International Olympiad Research, Taiwan 2016-08

Taipei Mayor Award, Taipei city government 2015-06

EXTRACURRICULARS

University of Toronto Robotics Association	2019-present
SUMO Design Team Member- Electrical Design	
Canadian Chinese Orchestra , Markham	2017-present
Erhu & Zhonghu	
Newcomers Association , York Mills Collegiate Institute	2016-2018
Vice Chair	