

# AN XIAODONG, William

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Hong Kong

## EDUCATION

2018-2022

The Hong Kong Polytechnic University  
Engineering Physics (GPA 3.81) (top 5%)

SOLID STATE PHYSICS (A+)  
WAVES (A+)  
MATHEMATICS FOR SCIENTISTS AND ENGINEERS (A+)  
CALCULUS AND LINEAR ALGEBRA (A+)  
UNIVERSITY PHYSICS I (A+)

2019-2020

Exchange: Georgia institute of technology  
(GPA 3.62/4.00)

The United States

Electro & Magnetostatics (A)  
Quantum Mechanics I (A)  
Mathematical Physics (A)

## ACADEMIC PROJECTS

Dec 2018- Jan 2019

Physics Club Project- "Line Tracking Car using Arduino"

- Used the Infrared sensors and several motors controlling boards to make sure the car walking along the black line.
- Programmed using Arduino.

## AWARD

2019-2020

- Dean's Honor's List 2019/20

2018-2019

- HKSAR Government Scholarship Fund 2019/20 - Reaching Out Award (ROA)

2018-2019

- Department of Applied Physics Scholarship for Hall Residents 2018/19

## RESEARCH EXPERIENCE

May-June, 2018

Placement and Summer Exchange, University of Science and technology of China

- investigated the characteristics of YbNbO<sub>4</sub> mixed Eu<sup>3+</sup> at high temperature and pressure.
- Learnt skills: Research papers read; operations of SEM, XRD instruments, spectrum instruments; analysis of IR spectrum, emission spectrum, Raman spectrum.

Jan- , 2021

Research in The Hong Kong Polytechnic University on Glass transition in theoretical physics

- Acceleration of particle dynamics by a particle-swap algorithm in a lattice model of glass

Mar- , 2021

Research in Georgia Insitute of Technology on smoothed-particle hydrodynamics

## WORK EXPERIENCE

21 Jul-5 Aug, 2018

Engineer Assistant, Yantai Taixin Electronic technology Co., Ltd

- Test the running of IGBT (a semiconductor component) and write the relevant data.

## EXTRA-CURRICULAR ACTIVITIES

Aug 2018-Aug 2019

A member in the House of Intercultural Living and Learning (HILL) Program

- Worked on the mental health of the hall students and the held the meeting per week. I was in an inner-program called "HILL intercultural" which was dedicated to intercultural communication and had held an activity called "all black" to try to help the excluded black people.