



Zhiwei Li

ABOUT ME

I am a bachelor student majoring in Instrument Science applying for a grant to complete research.

EDUCATION AND TRAINING

[01/09/2018 – 30/06/2022] **Bachelor of Engineering**

Tianjin University, China

Field(s) of study: Measuring Technology and Instrument

Final grade: 3.73(on a 4.0 scale)

Main subject / occupational skills covered:

MEMS Chip Fundamentals, Theory and Technology of Precision Measurement, Automatic Control, Digital Signal Processing, Digital System Design

[01/07/2022 – 30/08/2022] **Research Assistant**

Tianjin University, China

Field(s) of study: Acoustofluidic DNA Diagnosis Chip

Main subject / occupational skills covered:

Acoustic fluids, Rapid Diagnostic Tests, Biochemistry, BioMEMS

[01/09/2022 – Current] **Master of Engineering**

Tianjin University, China

Field(s) of study: Instrument Science and Technology

Main subject / occupational skills covered:

Microfluidics, Biosensors, BioMEMS

LANGUAGE SKILLS

Mother tongue(s): Chinese

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

My Digital Skills

Python(proficient) | FPGA Simulation | Siemens Unigraphics Nx | CAXA | COMSOL
Multiphysics (Basic)

PROJECTS

[01/01/2019 – Current] **Acoustofluidic DNA Diagnosis Chip**

The aim of the project is to investigate nucleic acid molecular diagnostic chips based on acoustic fluid technology. By introducing UHF acoustic fluid technology, the nucleic acid extraction, amplification and detection modules can be integrated into a compact microfluidic system, enabling the point-of-care testing (POCT) of key sequences of nucleic acid molecules directly from a variety of samples (including throat swabs, saliva, blood, etc.), and laying an important theoretical and technical foundation for the development of a universal molecular diagnostic POCT system.

HONOURS AND AWARDS

[01/09/2022] **1 st Place Academic Fellowship Awarding institution:** Tianjin University,China

[01/09/2021] **Individual Scholarship Awarding institution:** Tianjin University,China

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