

ZIJIAN WU

Email: zwu52@jhu.edu Phone: +86 15309238451

Objective: Seeking MSE Advisor

EDUCATION

University of Electronic Science and Technology of China (UESTC)

Sept.2016-Jul. 2020

Bachelor of Engineering in Mechanical Design, Manufacturing and Automation

GPA: 3.76/4.0(86/100) **Rank:** 10%/210

Awards and Distinctions

- International Genetically Engineered Machine Competition Gold Award (Intl.) 11/2019
- International Genetically Engineered Machine Competition Gold Award & Best Energy Project (Intl.) 11/2018
- Excellent Student Carder (UESTC) 06/2018
- 2nd Prize of 18th UESTC Mathematical Modelling (UESTC) 05/2018
- Excellent Volunteer (UESTC) 12/2017
- Excellent Member of Student Union (UESTC) 05/2017

Publications

- Yanli Gong, Hai Jiang, Yunfei Bai, Zijian Wu, Bei Peng, Xuan Weng, "Numerical Studies of Electrokinetically Controlled Concentration of Diluted DNA Molecules in A T-Shaped Microchannel", *IEEE Access*, vol. 8, pp. 5601-5610, Dec. 2019.

PROFESSIONAL EXPERIENCE

University of Electronic Science and Technology of China

07/2020-Present

Research Assistant, School of Automation Engineering

Vision Measuring and Learning Laboratory, PI: Prof. Zheng Yali

- Developing intelligent vision system for SMT machine to realize automatic picking, precise positioning and posture correction of electronic components to be mounted;
- Optimizing the system using objective recognition and image segmentation algorithms;
- Fabricated machine body and writing host computer program.

PROJECT EXPERIENCE

Paper-based Nano Electrochemical Biosensor for Rapid Detection of Food Allergens

10/2019-06/2020

Final Thesis Project, UESTC, CHN

Lab: Micro/Nano Manufacturing Laboratory, PI: Prof. Weng Xuan

- Designed and fabricated the paper-based microfluidics chip;
- Prepared and characterized of two-dimensional black phosphorus nanosheets;
- Explored the mechanism of nano-enhanced adapter-antigen immune response.

iGEM Contest Project - Ciprofloxacin Fluorescence Detection Instrument

03/2019-11/2019

Advisor, UESTC, CHN & Boston, USA

- Provided ideas and methods for mathematical modeling;
- Established fluorescence detective device test system and optimized mechanical structure;
- Nominated Best in Hardware Category.

Automatic Dough Kneading Machine Based on 6-DOF Parallel Robot

09/2019-10/2019

Individual Project, UESTC, CHN

- Released communication between various modules;
- Designed movement path and expected function & programming.

ADDITIONAL SKILL

Programming: C/C++, Qt, OpenCV, MATLAB

Software: SolidWorks, AutoCAD, ANSYS, COMSOL, SPSS