

# YANGLANG YUAN

1088 Xueyuan Avenue, Shenzhen 518055, P.R. China

✉ 11930509@mail.sustech.edu.cn

🔗 yuanyl.eu.org

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## EDUCATION

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**Southern University of Science and Technology**  
M.Sc. in Electronic Science and Technology

Sept. 2021 - June 2024 (Expected)  
Shenzhen, China

**Southern University of Science and Technology**  
B.Eng. in Mechanical Engineering

Sept. 2015 - June 2019  
Shenzhen, China

## PUBLICATIONS & PATENTS

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### Journal Papers

- Shiquan Ling, **Yanglang Yuan**, Danqi Yan, Yuquan Leng, Yiming Rong, George Q. Huang. (2022). "RHYTHMS: Real-time Data-driven Human-machine Synchronization for Proactive Ergonomic Risks Mitigation in the Context of Industry 4.0 and Beyond", *SSRN Electronic Journal*. doi: 10.2139/ssrn.4153658.

### Patents

- **Yanglang Yuan**, Jiahui Zhang, Xiaoyu Zhang, Fan Zhou, Yajun Wang, Hui Li, Haijiang Wang. Fuel cell bipolar plate and fuel cell: CN, 110459780A[P]. 2019-11-05.
- **Yanglang Yuan**, Jiahui Zhang, Xiaoyu Zhang, Fan Zhou, Yajun Wang, Hui Li, Haijiang Wang. Fuel cell bipolar plate and fuel cell: CN, 210429963U[P]. 2019-07-25.

## RESEARCH EXPERIENCES

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### Intelligent Manufacturing Lab at SUSTech

*Advisor: Prof. Yiming (Kevin) Rong, Prof. Yongsheng Ma*

July 2021 - Present

*Shenzhen, China*

- **Researching for Customer-to-Manufacturer(C2M)**

Data-driven intelligent manufacturing systems;

C2M manufacturing system model with universality and completeness;

3D printing sneakers based on C2M scene.

### Shenzhen Key Laboratory of Hydrogen Energy

*Advisor: Prof. Haijiang Wang*

June 2017 - June 2019

*Shenzhen, China*

- **A Bipolar Plate Design for Fuel Cell**

Mechanical structure design of a novel bipolar plate for fuel cell unmanned aerial vehicle (UAV);

Simulated in SolidWorks and COMSOL for the static and dynamic analysis.

- **A Controlling System for Fuel Cell**

Designed the control logic and methods & controller of the fuel cell system;

Designed the temperature and voltage patrol detection system of Fuel Cell.

Thesis topic: Controlling System of the fuel cell in the unmanned aerial vehicle (UAV)

### Seoul National University - SUSTech Research Program

*Advisor: Prof. Keyang Tang*

Dec. 2017 - Jan. 2018

*Shenzhen, China*

- **International Winter Undergraduate Research Experience**

Worked in mixed teams with Seoul National University students to complete specific research tasks;

Analysis of the development of the intelligent manufacturing industry;

Brief hypothesis of an integrated system for design, manufacture and maintenance of the shared bicycle.

**Robotics and Autonomy Lab at Tsinghua University**

June 2017 - Aug. 2017

*Advisor: Prof. Chenglong Fu**Beijing, China***· Summer Undergraduate Research Project**

Participated in the design and manufacturing of a robot Bluetooth communication controller;

Other advanced knowledge in Robotics.

**Formula Student Electric China Program**

2016 - 2017

*Advisor: Prof. Yiming (Kevin) Rong**Shenzhen, China***· The Controlling System of Electric Racing**

Jan. 2017 - Aug. 2017

Designed the control logic and methods of electric racing;

Built the high voltage and low voltage circuits of the racing.

**· Battery Management System(BMS) of Electric Racing**

June 2016 - Jan. 2017

Research on the control strategy of the battery management system;

Designed and built the temperature and voltage detection circuit of a battery management system.

**TEACHING EXPERIENCE**

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**Advanced Manufacturing Systems**

Feb. 2022 - June 2022

*Teaching Assistant**Shenzhen, China*

- Responsible for introducing computer-aided design (CAD), computer-aided engineering (CAE), computer-aided manufacturing (CAM), robotics, material resource planning, tool management, information management, process control, quality control, etc.

**Awareness Practices of Manufacturing Engineering**

Sept. 2021 - Jan. 2022

*Teaching Assistant**Shenzhen, China*

- Responsible for preparation of equipment, data analysis, and presentation of results and conclusions of the students' course projects.

**SKILLS**

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**Certificate**

GCDF

**Programming**

Proficient: MATLAB, Plant Simulation; Intermediate: C/C++, Java

**Technical Tools**

Solidworks, AutoCAD, CNC, Altium Designer, LaTeX, Markdown, etc.

**Language**

Chinese, Cantonese, English

**HONORS & AWARDS**

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Outstanding Postgraduate Student, SUSTech

2022

Excellent Postgraduate Teaching Assistant, SUSTech

2022

Employee of the Year, SUSTech

2021

Outstanding Graduation Thesis, SUSTech

2019

Honorary Graduate of Zhicheng Residential College, SUSTech

2019

Self-improvement Star of Zhicheng Residential College, SUSTech

2019

National Encouragement Scholarship, China

2018

Outstanding Leadership of Zhicheng Residential College, SUSTech

2016 - 2018

Winning Award of Formula Student Electric China

2017