

# YANGLANG YUAN

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## EDUCATION

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|---|-----------------------------------|
| Southern University of Science and Technology | Sept. 2021 - June 2024 (Expected) |
| M.Sc. in Electronic Science and Technology    | Shenzhen, China                   |
| Southern University of Science and Technology | Sept. 2015 - June 2019            |
| B.Eng. in Mechanical Engineering              | Shenzhen, China                   |

## PUBLICATIONS & PATENTS

### Journal Papers

- Yanglang Yuan, Jingke Wang, Guyue Zhou, Yiming Rong, Yongsheng Ma. (2024). “A framework and implementation of the Customer-to-Manufacturer (C2M) paradigm”, *Advanced Manufacturing*. doi: 10.55092/am20240004
- 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”, *Robotics and Computer-Integrated Manufacturing*. doi: 10.1016/j.rcim.2023.102709
- Yanglang Yuan, Daqiang Guo, Shiquan Ling, Jingke Wang, Guyue Zhou, Yiming Rong, Yongsheng Ma. (2023). “A framework for Customer-to-Manufacturer (C2M) in the context of Industry 5.0” (*Under Review*)

### Conference

- Yanglang Yuan, Jingke Wang, Kang Tang, Guyue Zhou, Yiming Rong, Yongsheng Ma. (2023). “A framework and implementation of Customer-to-Manufacturer (C2M) paradigm in e-Commerce” (*NSFC-RGC Conference 2023, Hong Kong*)

### 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                      | July 2021 - Present    |
| <i>Advisor: Prof. Yiming (Kevin) Rong, Prof. Yongsheng Ma</i> | <i>Shenzhen, China</i> |

- 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.

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| Shenzhen Key Laboratory of Hydrogen Energy | June 2017 - June 2019  |
| <i>Advisor: Prof. Haijiang Wang</i>        | <i>Shenzhen, China</i> |

- 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 UAV  
  
Seoul National University - SUSTech Research Program Dec. 2017 - Jan. 2018  
*Advisor: Prof. Keyang Tang* 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.  
  
Formula Student Electric China Program 2016 - 2017  
*Advisor: Prof. Yiming (Kevin) Rong* Shenzhen, China
- The Controlling System of Electric Racing Jan. 2017 - Aug. 2017  
In charge of the electronic part of the racing car; Designed the control logic and methods of electric racing;  
Bulit the Battery Management System(BMS) of electric racing.

## 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 manufacturing (CAM), 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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|-----------------|--|
| Programming     | Proficient: MATLAB, Plant Simulation; Intermediate: C/C++, Java  |
| Technical Tools | Solidworks, AutoCAD, CNC, Altium Designer, LaTeX, Markdown, etc. |
| Language        | Chinese, Cantonese, English (IELTS 6.5)                          |

## HONORS & AWARDS

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|---|-------------|
| Outstanding Postgraduate Student, SUSTech                       | 2022 - 2023 |
| Excellent Postgraduate Teaching Assistant, SUSTech              | 2021 - 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        |
| Outstanding Student Representative of Student Congress, SUSTech | 2017        |
| Third-Class SUSTech Scholarship for Outstanding Student         | 2015-2017   |