WU QIONG

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Work History

2022 - present **Project Officer (current) – NTU, Singapore**

- Conducting in-depth studies on the applications of robotics, with a specific focus on additive manufacturing technologies.
- Analysing and interpreting data to optimize the performance and accuracy of robotic additive manufacturing processes.
- Contributing to the enhancement of paper writing skills through the preparation and submission of research papers.
- Summarise more papers regarding the 3D/4D printing materials, especially for water-soluble materials, PVA, food printing technologies, etc

2021 - 2022 **CMP Process Engineer - Globalfoundries, Singapore**

- Analyse split lot, DOE data, ET, sort yield using JMP, Klarity ACE
- Sustain and improve process / SPC to meet quality, cost, and productivity requirements.
- Interaction with Process Integration, Manufacturing, Technology Development team and Vendor/Suppliers
- Analyse SPC charts using SPACE. Do proper annotation to maintain a quality troubleshooting rate for SPC OOC. Understand Cp and Cpk indices. SLDB monitoring.
- Follow up on SPSR MRB, 8D, TECN, or spec update with ECN.
- Lead a team of associate engineers on process qualification for capacity ramp-up, cross FAB benchmark, process flexibility improvement projects, product transfer, and provide improvement plans to reduce OOC and improve new device OCR residue.
- Arrange qualification lot for EPL slurry changing to CSL.

Education

2024.01 – 2026.08 **Mechanical Aerospace Engineering**

Nanyang Technology University (Master's degree)

2016.08 – 2020.11 **Electrical Electronic Engineering**

Nanyang Technology University (Bachelor's degree)

2013.04 – 2016.03 **Electrical Electronic Communication**

Nanyang Polytechnic (School Diploma)

Additional Information

- AWARD, 2012 – **Tan Kah Kee Award** for project Burglar Alarm System
- Paper Published, 2022 - Lee, Jongsuk, Ping Chong Chua, Lequn Chen, Poh Huat Nicholas Ng, Yerim Kim, **Qiong Wu**, Sumin Jeon, Jihwan Jung, Siheon Chang, and Seung Ki Moon. "Key Enabling Technologies for Smart Factory in Automotive Industry: Status and Applications." *International Journal of Precision Engineering and Manufacturing-Smart Technology* 1, no. 1 (January 1, 2023): 93–105. https://doi.org/10.57062/ijpem-st.2022.0017.
- Paper Submitted, 2023 – Seong Je Park, Seungyon Cho, Jongsuk Lee, **Qiong Wu**, Lequn Chen, Nicholas Poh Huat Ng, Seung Ki Moon. "*Insights into the industrial application of bulk metallic glasses via additive manufacturing. https://doi.org/10.1007/s12541-026-01449-0*".