

Wen Qing Ong

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Experience

Rationalization Engineer

Murata

Oct 2023 - Present (5 months)

Aims: Improvement to manufacturing process via innovate solution in Software Or Hardware aspects

Main role: Software Design and Development

- Implementation of computer vision and image processing techniques in OpenCV
- Utilizing Python for machine learning and data sciences
- Frontend development for user using JavaScript and React.js (Under study phase)

Process Engineer

Murata

Jun 2021 - Oct 2023 (2 years 5 months)

Process in-charge: Mixing/Milling and sheet coating process for MLCC

- Ensure product quality and control in Process
- Deals with daily production product quality trouble and give technical support to production
- Investigate the cause of non conformity and write failure analysis report and corrective action report
- Implementation Lean Six Sigma for Manufacturing Process
- Design of Experiments (DOE) for Evaluation Manufacturing lots and new product setup
- Project management to ensure experiment and investigation proceed smooth
- Solving problem with San Gen (Genba, Genbutsu, Genjitsu)

Production Engineering Intern

Murata

Jan 2021 - Feb 2021 (2 months)

6 Weeks Internship

Production Engineering

- Familiarization of Data analytical tools (JMP, Excel VBA and ImageJ)
- Establish plan prioritize and execute Engineering activities
- Propose plan & implement quality preventive/ improvement activities
- Collecting data required to make process improvements and/or modifications and reduce process waste

Data automation intern

Infineon Technologies Asia Pacific Private Limited

Jan 2020 - Jun 2020 (6 months)

- Maintenance of daily data extraction and visualisation for Tableau Lot Rejection Rate (LRR) report

- Use of Tableau for other KPI reporting
- Use of Excel VBA and Python for automation

Education



Nanyang Technological University Singapore

Master of Science - MS, Artificial Intelligence

Aug 2022 - Apr 2025

The programme emphasizes on AI theory, techniques and tools to solve real world problems with multiple types of constraints, e.g. problems with limited training data and big data problems. Equipped with both theoretical and activity-based learning, this will allow graduates to upgrade their competencies and skills.



Nanyang Technological University Singapore

Bachelor of Engineering - BE, Materials Science and Engineering

2017 - 2021

- Sport and recreation Officer of NTU MSE Club 18th Management Committee
 - Vice-President of NTU MSE Club 19th Management Committee
 - SgIS Scholarship recipient
 - Blink monitoring and eye-care glasses using Arduino (Course project - group work);
- See <https://github.com/Sharvaj/iCare>

Licenses & Certifications



Learning VBA in Excel - LinkedIn



Introducing Jupyter - LinkedIn



Learning Python - LinkedIn



NLP with Python for Machine Learning Essential Training - LinkedIn



Data Ingestion with Python - LinkedIn



Machine learning - Stanford University

83SDSK7XKNRL



Material Data Science and Informatics - Georgia Institute of Technology

LDE7ZFG7M2VA

Skills

OpenCV • Visual Basic for Applications (VBA) • Project Management • Analytical Skills • JMP •
Design of Experiments (DOE) • Business Intelligence (BI) • Python (Programming Language) • Microsoft
Excel • Data Analysis

Honors & Awards

SgIS Mid-Term Scholarship Recipient - Ministry of Education

Aug 2020