

Javier

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Education Background

Master of Science in EEE, GPA: 4/5
University (NTU), Singapore

Aug 2017 - Jul 2018 Nanyang Technological

B.Eng. in Mechanical Design, Manufacturing and Automation, GPA: 3.78/4
Huazhong University of Science and Technology (HUST), Wuhan, China

Sep 2013 - Jun 2017

Skills

Coding and data analysis:

Python, Data visualization, Machine learning, Jupyter Notebook, SQL, C++ and JMP

Certification: **Data Science Professional Certificate**, issued by Coursera, Authorized by IBM

Verify link: https://www.youracclaim.com/badges/2372eaca-04bc-44ea-ab73-69075736e265/public_url

Personal project done:

- *Analysis on Singapore rent price*
 1. Seize data from website with web crawler
 2. Collect location coordinates through *geopy.geocoders*
 3. Collect API data from foursquare.com and do data wrangling with *numpy* and *pandas*
 4. Use *K-Mean* to classify groups
 5. Do data visualization with *folium* and *matplotlib* ● Website browser automation system
- 1. Finish web-based administration tasks with help of *selenium*
- 2. Download quantities of pictures and videos with *requests* and *BeautifulSoup*

Microsoft office software

Certification: **Microsoft Office Specialist Excel 2016 Expert**, Authorized by Microsoft

Verify link: https://www.youracclaim.com/badges/05a8a7ce-84d6-451f-bc3d-b96f7c7ed720/public_url

IT related:

National Computer Rank Examination certification (hold by Chinese national education examination authority)

- Level 2: C++
- Level 3: Computer Network
- Level 4: Computer Network Engineering

Working Experience

Process Integration Engineer, Micron, Singapore

Aug 2018 - present

- **Module owner of BEOL(analyst)** ❖ Oversee manufacturing areas which make contacts & bond pad for the device, review all changes made to the fab processes to compensate downsides on downstream
- ❖ Design, execute and analyze experiments results to validate gains from improvement actions on fab process, yield, and reliability. Data visualization of conversion data and present to management for process adjustment approval

- ❖ Data mining and analyze to de-couple unexpected noise on complex issue and figure out root cause to keep production line healthy

- **Key achievement:**

Cross Fabs (including America and Japan) reliability issue fix out

1. Baseline reliability issue causing IC packaging failure and quality concern
2. Drive fix experiment action and make assessment with collected data
3. Hold meeting with managers cross Fabs and list down concerns raised from different departments
4. By data mining, analysis and driving further experiment, clear concerns cross Fabs and zero out the baseline reliability issue

ROM check issue fix

1. Design defect resulting in low resistance and insufficient digital status change
2. Data mining to verify potential correlation with existing data
3. Cooperate manufacturing areas and tune process parameter margin to control issue within expectation and prevent from affecting total project of Tech node

- **Tech node owner (project management)** ❖ Based on customer's request, strategizing product roadmap and coordinate with different manufacturing areas to meet yield and reliability targets

- ❖ Sensitive to condition change, dynamically adjust projection and strategy.
- ❖ Oversee the total fab process line, analyze inline & probe data to figure out the issue impact on yield performance and drive cross-departmental team to bring back yield to target
- ❖ Track conversion status, forecasting incoming inline yield performance and prepare slides for weekly steering committee update
- ❖ Analyze the record production, de-couple complex condition and figure out the true improvement cause
 - ❖ Arrange priority quota based on assessment of issue severity
- ❖ Manage aggressive condition product groups to forecast yield and assess risk of the best known method

- **Key achievement:**

Conversion tracking system setup and revert conversion leverage dashboard

1. Combine managers' requests and analyze the end-users demands to design database
2. Arrange efficient information collection strategy by collaborating with areas and module owners
3. Cooperate with big data team, optimize the obsolete tracking dashboard and revert
4. Improve yield forecasting accuracy, yield projection reaction speed and yield enhancement reliability

Product manager assistant and content editor, Du App, Hupu, Shanghai Shizhuang Trading Co.,Ltd.

Nov 2016 – June 2019 (part time remote on weekend) ❖ Gather market information, conduct market analysis and pinpoint fashion trend to design promotional materials for the company's product line

- ❖ Enhanced the existing app with more user-friendly functions (social section) and interactive elements (sneaker hotspot news series) to promote the company products