

# REJ AVERION

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## OVERVIEW

Senior Test Engineer writing software and designing hardware for 5 years at a Fortune 500 semiconductor manufacturer, looking to transition into **software, QA, web development, data analytics or other IT fields** and use my engineering/manufacturing background to bring value to the company. I am a growing developer who can learn quickly, loves to solve interesting problems, and collaborate with other brilliant engineers.

## SKILLS

- Python, C++, JavaScript, VBA object-oriented programming
- Linux, Bash
- CSS, HTML, JS, React front-end development
- SQL/MySQL/SQLite
- Git, SVN, JIRA
- Statistics and Data Analysis (distribution, probability curves, gage R&R, Cp/CpK, etc.)
- Microcontrollers, Arduino, Raspberry Pi, Embedded Systems
- Photoshop, AutoCAD
- Effective use of MS Excel / Google Sheets / MS Outlook
- Effective use of Google search, ChatGPT, other AI tools
- Efficient problem-solving
- Process optimization
- Versatility and receptiveness
- Productivity under minimal oversight
- Attention to detail
- Leadership & Collaboration
- Effective communication
- Business acumen
- Java
- MATLAB
- Jupyter, Pandas, Numpy, Scikit, Anaconda
- Machine learning, computer vision, OpenCV
- Agile methodologies, Scrum

## EXPERIENCE

Analog Devices, Inc. - Philippines

Feb 2018 – Feb 2022

Senior Engineer, Test Development

- Developed object-oriented test programs in C++ and other proprietary languages for Automatic Test Equipment (ATE). Optimized existing programs to reduce operation costs.
- Wrote Python scripts and tools to automate various development tasks.
- Analyzed bulk ATE data to improve quality and reduce operation costs.
- Collaborated with international cross-functional teams on high-visibility projects with aggressive cycle times.
- Travelled to offshore sites (US, Thailand, Malaysia, Italy) for various engineering/manufacturing purposes.
- Developed and facilitated technical trainings for other test engineers.
- Designed high-performance PCB hardware.

## RELEVANT PROJECTS

- Embedded intoxication detector using thermal imaging and supervised machine learning, built on Raspberry Pi, Python and C++.
- Python text editor that encrypts and decrypts files with AES for password storage purposes.
- Converted this text editor to a webpage with vanilla JS and hosted in on GitHub pages.  
<https://rejaverion.dev/textcryptor.html>
- Personal website [www.rejaverion.dev](http://www.rejaverion.dev)
- Created an app that simulates entry and retrieval of customer data to help train students for Customer Support roles. The app is written in Python and interacts with a SQLite database.
- Test Info converter tool for migrating products from one ATE platform to another. The tool imports all data such as test limits, bin names, test numbers, test names, test flow, test options.
- Various VBA Macros for data processing.

## EDUCATION & CERTIFICATIONS

Bachelor's Degree in Electronics and Communications Engineering

Emilio Aguinaldo College - Cavite, Philippines

2012 – 2017

- Top of the class, GPA = 3.7/4.0
- Best Final Year Project awardee – *Intoxication Detection based on Thermal Imaging and Machine Learning*
- Full scholarship awardee and Dean's Lister, 2012-2017
- Licensed Electronics Engineer – 99<sup>th</sup> percentile scorer in nationwide Licensure Exam. 2017
- Mechatronics Servicing National Certificate II from Philippines Technical Education and Skills Development Authority. 2016