

# REJ AVERION

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## OVERVIEW

Looking for **software engineering, data analytics, data science, machine learning, or web development roles** to use my engineering+manufacturing background to bring value to the company. Former IC Test Engineer writing software and designing hardware for 5 years at a Fortune 500 semiconductor manufacturer,

## SKILLS

- Python, C++, JavaScript, object-oriented programming
- Front-end development with CSS, HTML, JS, ReactJS
- Data Analysis, visualization with Pandas, Numpy, Matplotlib, Seaborn
- Statistics, data analysis with STDF/CSV/RTF files
- Linux/Bash CLI and scripting
- Writing queries and designing schemas with MySQL, MariaDB, SQLite3
- Machine learning with OpenCV, Scikit-Learn, Scipy
- Jupyter notebooks, Visual Studio Code, Visual Studio
- Microcontrollers, Arduino, Raspberry Pi, C++ embedded programming, FPGAs
- Git, Subversion (SVN), JIRA, Confluence
- Java, VBA, MATLAB
- Proficient with spreadsheets – MS Excel, Google Sheets
- Effective use of Google search, ChatGPT, other AI tools to boost productivity
- Knowledge of Agile methodologies, Scrum
- Process optimization, quality assurance
- Product development
- Efficient problem-solving, analytical thinking, attention to detail
- Versatility, receptiveness
- Leadership, collaboration, effective communication
- Business acumen, financial markets enthusiast
- Graphic design with Adobe Photoshop; technical drafting with AutoCAD

## 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 text files for password storage purposes.
- Converted aforementioned text editor to an interactive webpage using plain JS, hosted on GitHub pages. <https://rejaverion.dev/textcryptor.html>
- Personal website [www.rejaverion.dev](http://www.rejaverion.dev) using HTML5, CSS3, JavaScript
- 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 other VBA Macros for transforming and visualizing STDF data.
- Work-in-progress webapp hosted on AWS EC2.

## 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.
- Cleansed and analyzed bulk ATE data (STDF, CSV files) to improve manufacturing quality and reduce operation costs.
- Led and 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 engineers.
- Designed high-performance PCB hardware.
- All other tasks associated with IC test optimization and product development, such as correlation and gage studies, product and hardware characterization, qualification of test solution, etc.

## EDUCATION & CERTIFICATIONS

- Bachelor's Degree in Electronics and Communications Engineering
  - Emilio Aguinaldo College - 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
- Data Analysis with Python - freeCodeCamp certification. 2023