



CARLOS E. ESCAMILLA

Full Stack Data Scientist and Automation Expert

CONTACT

✉ Carlose197777@gmail.com

📞 830-243-1683

📍 Seguin, Texas, US

📧 Carlose197777@gmail.com

LANGUAGES

English	████████████████████
Spanish	████████████████████
Python	████████████████████
R Language	██████████████████
Java	██████████████████
SQL	████████████████████
DAX	██████████████████
AutoIt	████████████████████
HTML / CSS	██████████████████
JavaScript	██████████████████
PHP	██████████████████
ZPL / EPL	████████████████████
Visual BASIC	████████████████████
ActionScript	████████████████████

SKILLS

Exploratory...(EDA)	████████████████████
Data Visualization	████████████████████
Data Wrangling	████████████████████
ML and AI Term.	██████████████████
PowerBI	████████████████████
Tableau	██████████████████
DBMS	████████████████████
GIT	██████████████████
PhpStorm	██████████████████
DataGrip / DataSpell	████████████████████
PyCharm / Eclipse	████████████████████
Jupyter Notebooks	████████████████████
VBA MACROS	██████████████████
PyQt5 / Django	██████████████████
Dreamweaver	████████████████████

Professional Summary

Dedicated Full Stack Data Scientist with over 12 years of experience in data science and 22 years in software development. Skilled in front-end and back-end technologies, specializing in Python, Power BI, R Language, AutoIt, and SQL. Adept at leveraging data to drive insights and facilitate decision-making, with expertise in automation, database management, and data visualization. Proven ability to develop end-to-end data solutions and collaborate with cross-functional teams in diverse manufacturing environments. Passionate about continuous learning and innovation.

Summary of Qualifications

- Proven expertise in **Python**, **AutoIt**, and **VBA** for data analysis and task automation.
- Advanced in **Power BI** and **R Language** for data visualization.
- Experience designing and maintaining **SQL databases** for efficient data management.
- Skilled in statistical analysis, algorithm development, and exploratory data analysis.
- Capable of developing full-stack solutions, from data acquisition to deployment.
- Expertise in **Web** and **Desktop Development**, focusing on creating data-driven solutions.
- Strong problem-solving with a passion for leveraging data to derive actionable insights that drive impactful decisions.
- Excellent communication and collaboration skills with experience in training and mentoring teams.
- Over **22 years in Software Development** and **25 years of Electronics experience**.

Professional Experience

VITESCO TECHNOLOGIES / CONTINENTAL / MOTOROLA
Full Stack Data Scientist / Sr. Electronic Technician

Seguin, TX
07/01-Present

Development and Responsibilities:

- Created and maintained interactive **Power BI dashboards** to visualize trends for First Pass Yields (FPY), NCC1, Containments, Risk Assessments, and more.
- Streamlined and fully automated the data Extraction, Transformation, and Loading (**ETL**) processes using **Python** and **AutoIt**, completely eliminating manual effort.
- Collaborated with cross-functional teams across multiple locations, including the U.S., China, India, Czech Republic, and Mexico, to deliver end-to-end data solutions.
- Developed fully autonomous user interfaces (**iReports**) for Power BI dashboards, crunching data from **Oracle**, **MySQL/MariaDB**, and **MS Access**.
- Designed software and hardware fixtures for various projects, utilizing **Python** and **AutoIt**.
- Developed (Email/Cell) messaging systems (QCMS) for reporting critical/expired issues.
- Developed User Interface for printing scrap tickets using **ZPL/EPL** via **RS232**, **TCP/IP**, and **USB**.
- Provided technical training to quality teams and software developers, fostering skill development in data analytics and troubleshooting.
- Conducted supplier risk assessments and electronic analysis for shipment quality.
- Collaborated with data engineers to optimize data pipelines and improve data quality.
- Troubleshoot in-circuit and functional tests, ensuring product quality and compliance.



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TRAINED IN

Analog Circuits	██████████
Digital Circuits	██████████
Curent Probe	██████████
Frequency Counter	██████████
Curve Tracer	██████████
Function Generator	██████████
Power Supplies	██████████
Logic Probe	██████████
LCR Meter	██████████
Schematic	██████████
Multimeters	██████████
Oscilloscopes	██████████

SEGUIN, TX

- | | |
|---------------|-------------------|
| • Vitesco | 01/01/21-Present |
| • Continental | 06/26/06-01/01/21 |
| • Motorola | 07/09/01-06/26/06 |

CARLOS E. ESCAMILLA

Full Stack Data Scientist and Automation Expert

Professional Experience

ACS Data Line San Antonio, TX
Electronics Technician 04/01 - 07/01

- Terminated and organized cables (Cat. 5, Coax, Fiber Optic) using various tools and standard documentation.
- Performed tests on cables and equipment, ensuring functionality and quality.

SOLETRON Austin, TX
Electronics Technician 08/00 - 03/01

- Troubleshoot and repaired **CISCO networking boards** using schematics, oscilloscopes, and product test specifications.
- Conducted daily quality control inspections on solder, SMT, and assemblies.

Western Geophysical Houston, TX
Seismic Technician 08/98 - 07/00

- Worked on seismic boats in the Gulf of Mexico and Brazil, maintaining computers, networking, and electronic equipment.
- Managed inventory and troubleshooting for electronic systems onboard.

Education & Certifications

- | | |
|---|----------------------|
| • Bachelor's Degree in Data Science (Exp. Completion: 1 st Semester of 2025) | Bellevue University |
| • Full Stack Software Development / Data Scientist | Udemy & edX |
| • CS50's Web Programming with Python and JavaScript | edX, HU |
| • Python and Django Full Stack Web Developer Bootcamp | Udemy, Jose Portilla |
| • JAVA Programming Training | San Francisco, CA |
| • Electronics Engineering Technology AAS (ITT Tech – GPA 3.4) | San Antonio, TX |
| • High School Diploma (1996) | Eagle Pass, TX |
| • Fixed Macintosh Computers Hardware/Software (High School) | Eagle Pass, TX |
| • Troubleshoot and Assemble Computers (High School) | Eagle Pass, TX |

Programs Developed

- | | | |
|--|-----------------------------|---------------------------|
| • Analyzer Notes | • Analyzer Mill Count | • Non-Conforming Material |
| • QCMS | • Process Date Verification | • John Deere Tester |
| • Mission eScrap | • eHold Tags | • Programmable DMM UI |
| • iReports | • CVL Ship2 | • MES TCPIP |
| • Power BI Dashboards (FPY, NCC1, QCMS Hold Tags, Mission eScrap, JIDOKAS...) | | |
| • eScrap – Electronic Scrap Material Inventory Delavan, WI | | |
| • QCMS – Quality Control Messaging System India, Mexico, Czech Republic | | |

References

- Available upon request.