Maria Diaz

Embedded Software Engineer

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WORK EXPERIENCE

Intel Corporation - Embedded Software Engineer

2022 - current Allentown, PA

- Migrated Intel's legacy systems to QNX, saving the company $124K+ in maintenance costs.
- Collaborated with 4 teams to integrate Microsoft Visual Studio with VisualGDB, completing debugging 6 days quicker compared to traditional methods.
- Implemented SystemVerilog-based verification methodologies, leading to a 13% decrease in bug count during each sprint.
- Developed device drivers for multiple peripherals, **increasing overall data throughput by 38%**.

Deloitte - Systems Analyst

2019 - 2022 Philadelphia, PA

- Created Python scripts to automate testing procedures, reducing testing time by 7 minutes.
- Ran version control on Mercurial, **lowering code integration conflicts by 44%.**
- Collaborated with clients to gather technical requirements and keep them compliant with local laws, resulting in a 97% client satisfaction rate based on feedback surveys.
- Executed 2 performance testing scenarios, discovering major bottlenecks and optimizing clients' system performance to handle 31% more users.

Comcast Corporation - Junior Quality Assurance Analyst

2016 - 2019 Philadelphia, PA

- Led weekly I2C protocol tests and identified 7 protocol inconsistencies within 3 months.
- Analyzed all system behavior using logic analyzers, helping seniors locate 22% more bugs in firmware.
- Introduced SystemVerilog testbenches for RTL verification, **lowering test coverage times by 11 minutes**.
- Configured virtualized environments on VirtualBox, reducing hardware costs by $3,259 during monthly quality assurance checks.

EDUCATION

Carnegie Mellon University - Bachelor of Science, Electrical and Computer Engineering

2012 - 2016 Pittsburgh, PA

SKILLS

IAR Embedded Workbench; Python; QNX; Mercurial; I2C; Logic Analyzers; Microsoft Visual Studio with VisualGDB; SystemVerilog; OpenEmbedded; VirtualBox