GABRIEL RIVERA

Embedded Software Engineer

CONTACT

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Melville, NY ⌖
[LinkedIn](#) 🔗

EDUCATION

Bachelor of Science
Electrical and Computer
Engineering
Cornell University
2011 - 2015
Ithaca, NY

SKILLS

Code Composer Studio
Embedded C#
ThreadX
Perforce
CAN
Oscilloscopes
Green Hills Software MULTI IDE
SystemC
BusyBox
ModelSim

WORK EXPERIENCE

Embedded Software Engineer

Honeywell Aerospace

2021 - current / Melville, NY

- Maintained embedded software for aircraft engine control systems using ThreadX RTOS, reducing the average system response time by 8 seconds.
- Designed system-level simulations on SystemC, maintaining a **98% on-time development record** for all aerospace products.
- Facilitated hardware-software integration and debugging with the help of oscilloscopes, reducing resolution time by 2 days.
- Implemented secure boot protocols for manufacturing software using BusyBox, ensuring the system was 78% more secure against unauthorized access.

Systems Administrator

IBM

2018 - 2021 / Armonk, NY

- Helped in debugging embedded software using Code Composer Studio, allowing 12 systems to boot 4 seconds quicker.
- Enhanced GUI functionalities with the help of Embedded C#, **reducing user interface latency by 46%.**
- Developed scripts in Bash and Python to automate daily routine tasks and reduce manual workload by 6 hours every week.
- Collaborated with product owners to design and implement 9 disaster recovery solutions, lowering recovery time objectives (RTO) by 21%.

Electronics Technician

L3Harris Technologies

2015 - 2018 / Rochester, NY

- Identified the root cause of 9 hardware failures, gaining a 97% accuracy rate in resolving all issues.
- Assisted embedded engineers in troubleshooting Controller Area Network (CAN) communication protocols with a **94% success rate for transmitting data.**
- Used ModelSim for FPGA simulation, reducing technical revisions by 31% and ensuring on-time product development.
- Trained 6 junior technicians on and testing electronic products, helping them become proficient with repairing multiple systems.