

Ethan Bauer

Systems Programmer

Systems programmer with 12 years of experience developing low-level software for operating systems, drivers, and memory management. Expert in C, Linux internals, and multi-threading. Adept at improving system efficiency and debugging kernel-level errors.

CONTACT



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GitHub | Portfolio



Pittsburgh, PA 15222

EDUCATION

Bachelor of Science (B.S.) in
Computer Engineering
Carnegie Mellon University,
Pittsburgh, PA
May 2011

PROFESSIONAL EXPERIENCE

SENIOR SYSTEMS PROGRAMMER | OPTIMASYS TECH, PITTSBURGH, PA
JANUARY 2016 – PRESENT

- Developed memory management modules for proprietary OS, reducing fragmentation and improving memory allocation efficiency by 47%
- Implemented interrupt-driven device drivers for I/O subsystems, increasing IOPS performance by 38%
- Conducted race condition diagnostics in multi-threaded environments, decreasing critical failures by 71% across client deployments

SYSTEMS DEVELOPER | IRONSTREAM LABS, PITTSBURGH, PA
JUNE 2011 – DECEMBER 2014

- Built kernel extensions for real-time Linux distributions used in defense simulation platforms
- Wrote and maintained system daemons to manage background jobs and resource allocation
- Optimized boot sequences, reducing system startup time by 4.6 seconds on average

CERTIFICATIONS

- Linux Professional Institute Certification (LPIC-2), LPI, November 2020
- Certified Embedded Linux Engineer, Linux Foundation, August 2021