

Garrett Dees | Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 10+ years designing, building, and securing high-availability aerospace simulation platforms. Expert in Windows/Linux system administration, DoD-level cybersecurity compliance, and large-scale automation. Delivered up to 30% reduction in system downtime and 60% decrease in manual effort through scripted provisioning and hardening. Proven leader who drives cross-functional teams from concept through certification and delivery.

CORE COMPETENCIES

- **Programming & Scripting:** C#, C++, Python, PowerShell, .NET
- **Version Control:** Git, SVN (large-scale codebases)
- **CI/CD & Automation:** GitHub Actions, GitLab CI/CD, Ansible, Pester, pytest
- **Containers & Orchestration:** Docker, Kubernetes, Podman
- **Virtualization:** Hyper-V, VirtualBox, QEMU/KVM
- **System Administration:** Windows Server, RHEL/CentOS/Ubuntu
- **Security & Compliance:** RMF, STIG, SCAP, Tenable.sc, ACAS, SCC
- **Leadership:** Technical mentorship, cross-functional coordination, stakeholder communication

PROFESSIONAL EXPERIENCE

Software Integration Engineer – Bell Textron, Inc. (2019 – 2025)

- Configured, hardened, and maintained computer systems for military-grade flight simulators, achieving full DoD security compliance across approximately 50 simulators.
- Designed a repeatable cold-start procedure for bare-metal deployments; authored runbooks and automation scripts that streamlined system initialization.
- Led DoD certification and accreditation efforts for simulator platforms delivered to U.S. government and foreign military customers, coordinating stakeholder requirements and securing successful audit outcomes.
- Accelerated career progression from Software Engineer II to IV by delivering high-impact technical solutions and leading cross-functional initiatives.
- Developed custom Windows images using Microsoft Deployment Toolkit and a tailored Windows PE environment for secure, air-gapped deployments.
- Automated server provisioning on Windows and Linux via PowerShell modules, Python libraries, and Ansible playbooks, reducing manual effort and error rates by 60%.
- Diagnosed and resolved complex hardware and software issues, decreasing simulator downtime by up to 30%.
- Authored clear, layperson-friendly system configuration guides, enabling non-technical personnel to manage and troubleshoot equipment confidently.
- Designed interim workarounds during equipment integration, minimizing operational disruption and preserving departmental productivity.
- Supported end-to-end lifecycle activities – from requirement definition through verification and validation – for the Future Long-Range Assault Aircraft (FLRAA) virtual prototype.

Software Support Engineer – FlightSafety International (2014 – 2019)

- Ensured reliable operation of mission-critical OS and support software for advanced simulation environments.
- Managed health and performance of core OS layers, delivering rapid consultative assistance to application engineers and streamlining software integrations.
- Designed, modified, and maintained multi-platform OS code, including device-driver development for seamless hardware interfacing and real-time executive support.
- Evaluated new hardware and software configurations under senior-engineer guidance, guaranteeing compatibility and stability across production and development systems.
- Maintained consistency and quality of simulation software across all environments, providing hands-on support throughout the programming lifecycle.
- Collaborated with team leads and project engineers to define software requirements and drive successful implementation.
- Delivered in-house and on-site training on simulation tools, procedures, maintenance, and troubleshooting, elevating technical proficiency of staff and field technicians.
- Created automation scripts and utility tools that standardized workflows and boosted productivity for simulation software deployment and testing.
- Adapted to flexible schedules – including travel, shift work, and overtime – to meet project milestones and support critical operations.

Education

Bachelor of Science (B.S.) – Information Technologies

Concentration: Information Assurance & Forensics, Network Infrastructure

Oklahoma State University – Institute of Technology, 2011 – 2014