

Ethan Brooks

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SUMMARY

Experienced Principal Engineer specializing in cybersecurity for aviation and embedded systems. Over six years of success in leading initiatives and collaborating with industry partners like FAA, AIA, and EASA. Developed strategies improving aircraft cybersecurity operations. Proficient in risk assessment methodologies and aviation security regulations, dedicated to ensuring the safety of aircraft operations through innovative solutions. In mentorship roles, supported peers in identifying risks and validating security measures. Committed to ongoing improvement in cybersecurity practices and protection standards.

EXPERIENCE

Principal Engineer – Aircraft Cybersecurity Operations

January 2023 - Present

AeroSecure Solutions

Remote

Lead strategic aircraft cybersecurity operations at AeroSecure Solutions, collaborating with various departments and external partners. Responsible for establishing protocols to enhance security measures across a wide range of aviation technologies. Support teams in identification and analysis of cyber risks while implementing comprehensive testing mechanisms.

- Coordinate with Avionics and Powerplant Engineering for effective cybersecurity strategies.
- Mentor team members on assessing aviation cyber risks during security tests and implementing mitigations.
- Review emerging cybersecurity standards and provide strategic recommendations based on expertise.
- Build and maintain strong partnerships with stakeholders to drive proactive initiatives and project execution.

Cybersecurity Engineer

May 2019 - December 2022

SkyTech Innovations

Los Angeles, CA

Supported cybersecurity objectives by conducting thorough risk assessments and developing robust security protocols that safeguarded various aviation systems. Successfully implemented necessary security measures within avionics and propulsion systems collaborating closely with engineering teams.

- Executed risk assessments aligning aviation systems with current security protocols.
- Collaborated with cross-functional teams on effective integration of necessary security measures.
- Instituted training sessions focused on raising awareness about cybersecurity best practices.
- Assisted in creating clear documentation to help staff understand new security procedures.

LEADERSHIP & AWARDS

- Received the Excellence in Innovation Award for contributions to aircraft cybersecurity enhancement.
- Honored as Mentor of the Year for exceptional guidance offered to junior team members.

EDUCATION

Bachelor's Degree in Computer Engineering

2018

University of California, Berkeley GPA: 3.7

Berkeley, CA

Coursework: *Electrical Engineering Fundamentals, Cybersecurity Principles, Systems Design, Network Security*

CERTIFICATIONS

- Certified Information Systems Security Professional (CISSP) 📅 2020
- Certified Aviation Cybersecurity Specialist (CACS) 📅 2021

TECHNICAL SKILLS

- **Cybersecurity Tools:** Nessus, Metasploit, Wireshark
- **Risk Management Frameworks:** NIST, ISO 27001, FAIR
- **Project Management Software:** JIRA, Trello, Asana
- **Programming Languages:** Python, C++, SQL
- **Database Technologies:** MySQL, PostgreSQL, Oracle
- **Networking Tools:** Cisco, Juniper, Fortinet
- **Operating Systems:** Linux, Windows, macOS
- **Virtualization Technologies:** VMware, Docker, Hyper-V
- **Data Analysis Tools:** Excel, Tableau, Splunk

- **Security Standards:** ISO/IEC 27001, NIST SP 800-53, IEC 62443

SKILLS

- Cybersecurity
- Risk Assessment
- Aviation Regulations
- Embedded Systems
- Team Leadership
- Communication
- Problem Solving
- Security Testing
- Stakeholder Engagement
- Cyber Risk Mitigation
- Security Standards Compliance
- Avionics Security
- Propulsion System Safety
- Aviation Cyber Threats
- Regulatory Adherence
- Data Protection Techniques

PROFESSIONAL AFFILIATIONS

- Member of the International Society of Automation (ISA).
- Active participant in Aviation Cyber Security Forum.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST