

# Jason Karlin

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## SUMMARY

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Integration and test engineer with 6 years of experience spanning hardware-software integration, real-time simulation, field-deployed radar systems, and agile verification and validation. Builds and troubleshoots across the full stack—from ICD-level interfaces to system-level acceptance. Active Top Secret clearance. Currently developing AI-driven automation tools with Claude Code.

## EXPERIENCE

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### **Integration and Test Task Lead**, Charles Stark Draper Laboratory *2024–Present*

- Led budget, tasking, and schedule for a navigation and guidance subsystem flight experiment.
- Established a V&V framework aligned to INCOSE and IEEE 1012-2024, defining inspection, analysis, demonstration, and test methods across the system lifecycle.
- Authored technical data packages for SCR, SRR, and PDR milestones with minimal rework.

### **Hardware-in-the-Loop / Real-Time Modeling Engineer**, Draper *2023–Present*

- Recovered and validated a legacy real-time IMU simulation for nav/guidance system testing, updating code and documentation through AS9100 configuration management.
- Diagnosed transformer faults, timing drifts, and ICD mismatches across lab and customer field environments, isolating interleaved HW/SW root causes.
- Mentored junior engineers in structured troubleshooting and guided them through the performance review cycle.

### **Radar Systems Engineer**, Raytheon Technologies — CENTCOM Theater *Dec 2021–Dec 2023*

- Deployed to CENTCOM as the forward-positioned systems engineer, leading on-site diagnosis of radar anomalies and coordinating engineering change implementations.
- Engineered contingency process plans to minimize downtime during hardware failures; assessed system compliance via MATLAB analysis scripts.

### **Systems Test Engineer**, Raytheon Technologies, Woburn, MA *May 2019–Nov 2021*

- Product Owner for a 5-member agile team; drove sprint planning, backlog prioritization, and translation of customer needs into testable requirements.
- Led hardware-software integration test campaigns and developed automated verification scripts in MATLAB, Unix, DOORS, and Excel.

## PROJECTS

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### **Personal AI Aide** *Mar 2026–Present*

- Architected and implemented a personal agent with Claude Code and openClaw for daily briefings, email triage, and automated task creation.

### **Home Server and Automated Dashboard** *Mar 2026*

- Provisioned a home server with SSH access and an automated dashboard integrating MBTA, Google Calendar, weather, kanban, and IoT sensor data using Claude Code.

## EDUCATION

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**M.S. Aerospace Engineering**, Worcester Polytechnic Institute, 3.77 GPA *Oct 2020*

**B.S. Aerospace Engineering**, Worcester Polytechnic Institute, 3.64 GPA *May 2020*

## SKILLS & CLEARANCE

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**Software:** MATLAB, Simulink, Python, Unix, DOORS, Fusion360, LaTeX, Claude Code, Git

**Domains:** Integration & Test, V&V (INCOSE/IEEE 1012), Hardware-in-the-Loop, Real-Time Simulation, Agile/Scrum, AS9100

**Clearance:** Top Secret