

League City, TX  
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# Kevin M. Garner

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I am a spaceflight software and operations engineer with 10 years experience. I am currently pursuing my MS in computer science part-time, online at Georgia Tech, where I am focusing on low-level computing systems. I have strong knowledge in C and C++, and have also used Rust and Python previously.

## SKILLS

<b>Tools and Languages</b>	C, C++, Rust, Python, Linux, Git, $\text{\LaTeX}$
<b>Knowledge Areas</b>	Operating systems, Parallel systems, Cryptography, Avionics

## TECHNICAL EXPERIENCE

<b>Senior On-orbit Operations Engineer</b> <i>Nanoracks, LLC</i>	<b>Apr 2021 — Present</b> <i>Houston, TX</i>
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- Lead planning and execution of spaceflight payload operations
- Developed and executed test plans for software and hardware integration
- Planned new operations for Nanoracks Outpost program, utilizing spent upper-stage rockets for payload operations

<b>Avionic Subsystem Manager</b> <i>MRI Technologies</i>	<b>Mar 2020 — Apr 2021</b> <i>Houston, TX</i>
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- Lead team in embedded system software updates, including requirements development, verification testing, and code reviews for bare-metal C code
- Planned and executed troubleshooting and failure resolution of spaceflight avionic hardware and software

<b>Operations Engineer</b> <i>Cimarron, Inc</i>	<b>Jun 2012 — Mar 2020</b> <i>Houston, TX</i>
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- Lead multi-departmental team in creation of International Space Station flight software scripts, following NASA flight software development process for scripts that included fault detection algorithms and automated procedures
- Certified as an International Space Station flight controller, worked in NASA mission control. Monitored and operated International Space Station (ISS) avionics, communication, command, and data handling systems.

## EDUCATION

<b>M.S. Computer Science, Georgia Institute of Technology</b>	exp. Dec 2023
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Relevant coursework: Introduction to Operating Systems, Advanced Operating Systems

<b>B.S. Electrical Engineering, Louisiana State University</b>	May 2011
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Relevant coursework: Data Structures and Algorithms, Computer Architecture

## PROJECTS

MapReduce in C++ with gRPC  
Length extension attack on SHA-1 in Python  
Simple, multi-threaded distributed file system in C++ with gRPC  
Shamir's Secret Sharing scheme in Rust

## AWARDS

Integrated Mission Operations Contract Excellence Award	2019
NASA Flight Operations Directorate (FOD) Director's Award	2015
NASA Spaceflight Awareness Team Award	2014