

# James Raymond Harper

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[LinkedIn](#) • [Portfolio](#)

## Objective

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My career objective is to be in a financially stable, enjoyable, authentic, and passionate environment that allows me to be paid doing what I love. I want to focus on astrophysics, computer science, software development, and linux systems as a software engineer or researcher at NASA.

## Education

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### California Institute of Technology

- Bachelors of Software Engineering - May 2031
- Embedded Linux Systems, Astrophysics, Interstellar Astronomy, CS Algorithms

### Massachusetts Institute of Technology

- Ph.D. in software engineering specializing in astrophysical software development - May 2036
- Operating System Engineering, Stellar Astronomy, General Relativity, Effective Field Theories of QCD, Complex Analysis, Advanced Algorithms

## Experience

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### TReK Software Development & Mission Operations Intern - Marshall Space Flight Center

- May - September 2029
- Worked on developing Telescience Resource Kit used on ISS
- Mission Control Data Analysis
- Developed Algorithms for small spacecraft operations

### Linux Automation Intern - General Dynamics Mission Systems Inc.

- Developed scripts and automatic solutions for embedded linux systems
- Developed software integration and wrote extensive documentation for new features
- Helped build workflow by shifting to AGILE framework boosting productivity by 30%

**Post Doctoral Work Scholar in Star & Planet Formation Theory -  
Nevada Center for Astrophysics**

- Developed and test hydrodynamic simulations for earlier planetary formation
- Developed a diverse array of 30+ chemical simulations for reactions on inner pro-planetary disks.

## Skills

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**Professional Skills:** AGILE framework, JIRA, Confluence, Slack, Microsoft Power Point, Microsoft Teams, Data Science, Low-level Software development, Graphic Design, Video Editing, Git

**Frameworks/Languages:** Rust, Iced, C++, C, GDScript, Bash, Zsh, Python, Java, Swing, HTML, Node, Swift

## Certifications

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- Java IT Specialist
- NPR 7150.2C
- DO-178C
- CMMI-DEV
- ECSS
- HAS certificate
- FTC Design Award 2nd Place

## Activities

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**Clubs:** CRHS Robotics Team Co-lead and Lead Software Developer,  
Mu Alpha Theta President

**Activities:** High School Aerospace Scholars, UT CS Summer Academy  
for Machine Learning, Insprit AI Capstone Research Program,  
Code2College Software Development Essentials I