

# Clark Wakeland

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[Personal Github](#)

## Education

### University of Michigan

2022-2023

Master of Science - Aerospace Engineering - Highest Honors, *Ann Arbor, Michigan*

### Georgia Institute of Technology

2018 - 2022

Bachelor of Science - Aerospace Engineering, CS Minor - Highest Honors, *Atlanta, Georgia*

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## Work Experience

### Lockheed Martin

*Sunnyvale, CA*

System Integration/Test Engineer

*May 2023 to Present*

- Designed and wrote system level tests in Python, using Gitlab for version control and Agile workflow
- Developed functional tests for PowerPc based satellite processor
- Wrote closed-loop-testing to support the GNC team in satellite Yaw Flip and Event Recovery scenarios

### Michigan eXploration Lab (MXL)

*Ann Arbor, MI*

Lab Member

*Fall 2022*

- Proposed changes to local satellite model on ground for testing
- Verified functionality of software changes before pushing to satellite in orbit
- Ensured near-complete packet collection during orbital passes above ground station

### Blue Canyon Technologies

*Boulder, CO*

Test Engineer Intern

*May 2022 to August 2022*

- Developed testing utilities framework in Python
  - Designed and performed system test procedures on flight hardware
  - Worked on test backplane board to improve test speed and reduce equipment costs
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## Technical Projects

### Georgia Tech CASSIE Bipedal Robot controller

- Converted Matlab based controller to C++
- Integrated Yolo object detection on mechanical arm to grasp and pick up objects

### Linux Server-Client Pair

- Used Unix stream sockets and TCP/IP protocols to send and receive messages on Linux server
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## Skills

Technical Languages: **Python** **C++** **Full Stack Web Development (React, HTML, CSS)**

Development: **Linux** **Agile Methodologies** **Gitlab** **Code Sprints** **AWS**

Systems: **PowerPc** **Satellite Processors** **Hardware-in-loop testing**

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## Activities and Volunteering

- Semi-professional swimmer, participated in 2021 US Olympic Team Trials
- Georgia Tech and Michigan Varsity Swimmer (Team Captain 2022)
- CodeQuest Academy - technical mentor to high school students interested in CS concepts
- STEMBassador Tech Interactive - taught STEM concepts to students in SF Bay Area