Spencer Robieson

spencerrobieson@gmail.com — 847-732-4507 Westminster, CO Active Top Secret Clearance

| Active Top Secret Ciearance | |
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| Education | |
| University of Illinois at Urbana-Champaign | Aug 2019 – May 2023 |
| Bachelor of Science in Electrical Engineering with Honors | |
| Minor in Computer Science | |
| GPA: 3.55/4.0 Experience | |
| Northrop Grumman - Space Systems - Boulder, CO | Aug 2023 – Present |
| Associate Cyber Systems Engineer | Aug 2024 – Present |
| • Mission software tester for SBIRS | |
| • Utilize Linux command line for testing and troubleshooting system issues | |
| • Write Python and Bash scripts to assist in system testing and analysis | |
| • Update test procedures to test new functionality in upcoming system update | |
| • Run test procedures to identify system deficiencies and work with developers to resolve issues | |
| Associate Electrical Engineer | Aug 2023 – Aug 2024 |
| • Hardware engineer on S2E2 | |
| • Identified, diagnosed, and repaired issues with RF, fiber optics, and server hardware | |
| • Secondary hardware site lead for system testing and operations | |
| • Co-lead for updating engineering drawings and documentation | |
| • Coordinated calibration and inventory of test equipment and tools with external vendor | |
| • Trained new team members on system maintenance, troubleshooting, and hardware processes | |
| • Lead team of six to inventory, pack, and relocate program equipment to customer location | |
| University of Illinois at Urbana-Champaign | Aug 2022 - May 2023 |
| Undergraduate Teaching Assistant | Jan 2023 – May 2023 |
| • Teaching assistant for ECE 330 - Power Circuits and Electromechanics | |
| • Coordinated grading and course logistics with a team of course staff | |
| • Held office hours to assist students with homework and course concepts | |
| Undergraduate Grader | Aug 2022 – Dec 2023 |
| • Homework grader for ECE 464 - Power Electronics | |
| • Quickly handled grading, rubric questions and requests for regrading | |
| Northrop Grumman - Space Systems - Boulder, CO | |
| Hardware Intern | ${ m Jun} \ 2022 - { m Aug} \ 2022$ |
| • Returning intern on S2E2 hardware team | |
| • Acquired more hands-on experience with shelters and antennas | |
| • Assisted with depopulation of two shelters to prepare for hardware upgrades | |
| • Worked in team to assemble engineering estimate for spare antenna hardware | |
| Hardware intern | May 2021 – Jul 2021 |
| • Intern on S2E2 hardware team outfitting SBIRS mobile ground terminals | |
| • Gained an understanding of fiber-optic cable and its application in the system | |
| • Reviewed and updated engineering drawings for major fiber-optic upgrade in terminals | |
| • Installed servers, RF equipment, and appropriate wiring inside terminals | |
| Skills | |
| Programming Languages: Python, C, C++, Bash | |
| Libraries: NumPy, SciPy, SymPy, Matplotlib, CVXPY | |
| Operating Systems: Windows, Linux (Debian, Ubuntu, Alpine) | |
| Software: Command Line, Git, Docker, Podman, LTspice, Microsoft Office, LATEX | |
| Hardware: Oscilloscope, function generator, spectrum analyzer, multimeter, optical power meter and s | source, soldering |
| Relevant Coursework | |
| | |

Digital Systems Lab

Electric Machinery

Digital Signal Processing

Data Structures

Power Electronics

Power Systems Analysis

Computer Systems and Programming

Power Circuits and Electromechanics

Analog Signal Processing