

Sheridan Thomas

Spaceflight Systems Engineer · Human-Centered Spaceflight

hello@sheridanthomas.com · linkedin.com/in/sheridan-thomas · Greenbelt, Maryland

Spaceflight systems engineer at NASA's Goddard Space Flight Center, commanding the four Magnetospheric Multiscale (MMS) spacecraft from the Mission Operations Center. A background spanning neuroscience and licensed emergency medicine brings a human-centered lens to spacecraft operations, aerospace physiology, and space health. Currently pursuing an M.S. in Space Systems Engineering at Johns Hopkins.

EXPERIENCE

Systems Engineer · Spaceflight Operations

Oct 2023 — Present

NASA Goddard Space Flight Center — Mission Operations Center · Greenbelt, MD

- Command the four Magnetospheric Multiscale (MMS) spacecraft while continuously monitoring spacecraft health and safety.
- Coordinate communication-pass scheduling and build the command loads uplinked to the fleet.
- Identify, troubleshoot, and resolve spacecraft anomalies in real time.

EDUCATION

Johns Hopkins University — Whiting School of Engineering

2025 — 2028

M.S., Space Systems Engineering (in progress) — satellite design, power management, telemetry

Capitol Technology University

2023 — 2024

Certificate, Spaceflight Operations — Space Missions & Operations program

University of Maryland

2019 — 2022

B.S., Neuroscience

Hagerstown Community College

2015 — 2019

A.A.S., Emergency Medical Technology (Paramedic)

SKILLS

Spacecraft Operations: Spacecraft Command · Telemetry · Mission Planning · Satellite Ground Systems · Spacecraft Simulator · STOL · Data Flows · Trend Analysis · Anomaly Resolution

Engineering & Tools: Systems Engineering · Python · MATLAB · Linux · CAD · 3D Modeling · Prototyping · Quality Assurance · Data Analysis

Human Spaceflight & Research: Aerospace Physiology · Space Health · Licensed Paramedic · Neuroscience · Scientific Research · Technical Writing · Team Leadership

SELECTED PROJECTS

Harnessing the Sun — Solar Array Deployment & Solar Cell Simulation

2023

Built a 10-week satellite simulation training spaceflight-operations students on EO-1 solar-array control using Galaxy command languages and database mnemonics.

Space Physiology · The Microbiome & Space

2021 — 2022

Research on how microgravity, radiation, and isolation affect human physiology and the microbiome across long-duration spaceflight.