Let’s Go to Space
The Weiss CubeSat Development Team

Victoria Cross and Christina Cross
Founding of the Weiss CubeSat Development Team (WCDT)

- Formed in August 2015
- 9 founding members
- Goal: To design, test, and fly a CubeSat within 3 years
- The process:
  - Raspberry Pi emulators
  - Tethered & HAB balloons
  - Captive carry flight
  - WeissSat-1
WeissSat-1

- 1U CubeSat, NSL FastBus Structure
- Extremophile bacteria payload
- Live/dead fluorescent dye, LEDs, and sensors to test viability
- Manifested to ELaNa 24
- Vandenberg Air Force Base, Falcon-9 November 15th
- Polar, sun synch orbit

575km: Apogee 573km: Perigee 574km: Min Altitude 97.75 deg: Inclination
Increasing STEM Awareness and Involvement

- Inspire next generation and STEM workforce
- Unique opportunities
- Increase student involvement
- WeissSat-1 federal resolution in support of NASA’s CubeSat Launch Initiative

Mission: To establish a robust STEM program featuring a hands-on research-focused approach, to foster natural student curiosity, and to facilitate excellence via individual and team competitions.
Amaris Lunar Rover

- Deployment in 2020-2021
- Based on NSL CubeSat technology
- Astrobotic’s Peregrine Lander provides delivery and telemetry
- Landing site: Lacus Mortis (Lake of Death)
”The only source of knowledge is experience.”

-Albert Einstein

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