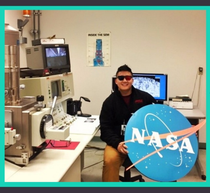
10 THINGS NASA INTERNS DID THIS SEMESTER

They did actual rocket science.

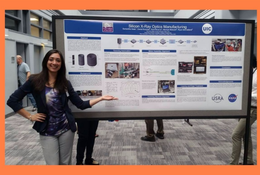
1



Paul Chao, intern at NASA's Glenn Research Center in Ohio, worked with a scanning electron microscope to analyze fractured surfaces of Alloy 718 mechanical test bars. These test bars were fabricated from 18 different Alloy 718 powders using selective laser melting as part of the Additive Manufacturing Structural Integrity Initiative project supported by the Space Launch System Liquid Engine Office. Paul's project helps NASA better understand the effect of powder feedstock variability on additive manufacturing process for the metal parts being used in the RS25 rocket engines.

They identified new dreams and learned how to achieve them.

From NASA's Goddard Space Flight Center in Maryland, intern Samantha Arato said: "My goal initially upon returning to school was to become an astronaut, but the more research I do the more I believe I want to go into a support role for the ISS and missions beyond. This internship has helped me to see how the power of networking can help me navigate between opportunities and gain experience to move up the ladder of command, and that has been exciting to discover."



2

They explored their surroundings with new friends.

3

Samantha Ingersoll and other interns from NASA's Armstrong Flight Research Center in California went on an adventure in the hottest, driest and lowest National Park. "A group of interns went to Death Valley for a camping trip. We hiked around 10 miles and saw so many beautiful things." But if camping in Death Valley isn't extreme enough, don't worry: They went skydiving on another weekend.

They met some pretty cool people.

"During my internship, I was able to meet several important officials from NASA's Kennedy Space Center, such as Robert Cabana, the center's director and a former commander of the space shuttle," said Alexander Garcia, an intern at the Kennedy center in Florida. In this photo, Alex is replacing rivets on the Rassor 2.0 to prepare for National Public Radio's "Science Friday" in March 2017.

4

They enjoyed tests ... but not quite like the ones in school.

5

Sepher Bastami, an intern at NASA's Stennis Space Center in Mississippi, describes his experience: "Watching two tests of the RS-25 from an inside perspective was the greatest. During the first test we watched, we were atop the A2 test stand with a perfect view. The second time, we visited the Test Control Center where we had a first-hand experience of the work, the environment and the buzzing atmosphere before a test."

They gave us an out-of-this-world perspective ... literally.

NASA intern Christine Odenwald from Langley Research Center in Virginia worked with Josh Kinne to create a new virtual reality visualization of the Stratospheric Aerosol and Gas Experiment III instrument on the International Space Station. The visualization will allow users to better understand the SAGE III's functions.

6

They paid it forward in the local community.

7

Jacob Cassady describes his opportunities as an intern at NASA's Johnson Space Center in Houston: "Some of the cool things we did during this internship include volunteering at FIRST Robotics competitions and the Morefield Boys & Girls Club. It was a great experience working with kids who have an interest in STEM and spaceflight."

They expanded their horizons and visited facilities outside their workspace.

Ali-Imran Tayeb, an intern at NASA's Ames Research Center in California, was privileged to visit the Tesla factory in Fremont. He also visited the supercomputing facility and 40-by-80 wind tunnel at Ames. During his visit to the wind tunnel, Ali saw a tiltrotor assembly being prepared for a test, pictured here.

8

They redefined "office space."

9

Erik Gutierrez, an intern at NASA's Jet Propulsion Laboratory in Pasadena, California, was selected to participate in research for the Mars 2020 rover mission. "On the first day, I met my mentors Gregory Peters and Elizabeth Carey, and they gave me a tour of the lab where I would be working," he recalled. "One of the coolest things about where I work is that the lab is right next to the Mars Yard."

They helped advance technology for future space exploration.

At NASA's Marshall Space Flight Center in Alabama, intern Nicolas Donders contributed to the Grooved Ring Fuel Element for a Nuclear Thermal Rocket project. He also worked on the Pulsed Fission/Fusion (PuFF) project, which in the future may help us reach Mars in as little as 39 days.

10

What will be the highlight of *your* NASA internship? Visit **intern.nasa.gov** today to search for opportunities and apply!

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