

OneOrbit™ Education Programs



The journey begins with OneOrbit!

As the premier supplier of products, services, and educational programs related to space exploration, OneOrbit delivers excellence. We're a team made of high-flying astronauts, inventive engineers, passionate educators and specialist professionals, ready to take your education program and events to new heights.

Succeed Like an Astronaut (Student/Education)



The OneOrbit premier student keynote 'Succeed Like an Astronaut' is an innovative, collaborative and immersive designed presentation by a former ISS Commander and NASA Master Science Educator. This presentation is ideal for students of all ages.

We designed our 'Succeed Like an Astronaut' student program specifically to inspire young people to find the courage to follow their dreams by overcoming obstacles and rejecting mediocrity. That's a process almost every astronaut recalls from their own youth, and it's something we want to provide to your students, too. Our student program will open young minds to the excitement and wonder of science, math and technology, while providing tools and strategies to help students overcome fear and insecurity.

Succeed Like an Astronaut: An Astronaut's Path to the Stars

Leroy Chiao talks about his dream of spaceflight, and how he overcame obstacles to reach his goal of becoming an astronaut. His personal story and lessons apply to all students of all ages. A commander of the international Space Station, Dr. Chiao shares his spaceflight adventures with personal stories and exciting visuals!

Question and Answer

To finish, students will have the opportunity to ask Dr. Leroy Chiao and Ms. Sunkel the questions they've always wanted answered!

Explore the Universe

The program begins with an exciting space STEM lesson. Jami Sunkel discusses the most awe-inspiring space exploration missions of the 21st Century, the challenges and what we might discover in the future. Following Ms. Sunkel, Dr. Leroy Chiao shares his personal story of pursuing his dream, to space!



Make the Most of Your OneOrbit!



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Space Exploration Enrichment Activities



Astronaut Developed Activities for all Explorers! Space exploration enthusiasts of all ages and families absolutely love this program! OneOrbit will provide a NASA astronaut to deliver their signature keynote address and lead space themed lessons in large or small groups. We take pride in our on-site programs and can customize a program to fit your event needs.

Life Aboard the International Space Station (ISS) with Astronaut Leroy Chiao and Lunar Discoveries with NASA Certified Master Teacher Jami Sunkel

Your space exploration experience begins with an exciting video of what it's like to launch aboard a Russian Soyuz rocket, and to live and work aboard the ISS for six-and-a-half months! Dr. Chiao provides narrates this experience with

personal stories! Students will design, build and launch their own rockets and see if they have what it takes to get to the Moon and beyond!

Future Mars Exploration with Astronaut Leroy Chiao and NASA-Certified Master Teacher Jami Sunkel

Learn about Mars and how billions of years ago, it had major oceans that could have supported life. Explore the challenges of landing there. Design, build and test a Mars lander for exploring the red planet!

Explore the Universe with Astronaut Leroy Chiao

Explore the awe inspiring facts about our solar system and beyond. Discover the past, present and future explorations missions with a NASA astronaut. Create your own galaxy and build a scale model of the solar system.



OneOrbit Sample Education Program

Example of a 4-day onsite education program: "Succeed Like an Astronaut"

OneOrbit will provide two Events per day for (4) consecutive days. An Events is either an Astronaut Keynote or Space Exploration Enrichment activity. In addition, OneOrbit will provide a community presentation for parents and stakeholders.

- "Succeed Like an Astronaut" Presentations (Approximately 1hr and includes class photos)
- Space Exploration Enrichment Activities (Approximately 1hr and includes class photos)
- (1) Community Presentation "Journey of the first Chinese-Heritage Professional Astronaut" (Approximately 1hr and includes photos)

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OneOrbit Education Leadership Programs (Professional Development)

Dr. Chiao began his professional career as a chemical engineer, and his passion for space exploration led him to NASA. Following a stellar 15-year astronaut career, he moved on to leadership positions in entrepreneurial startups and universities, applying his space experience to the business and education worlds. Chiao has identified and addressed key performance/innovation topics which affect all organizations, both big and small. His unique spaceflight perspective frames these topics from a non-traditional view that is especially impactful.

He and the OneOrbit™ team have developed keynotes that hit the professional and strategic points that are critical to keeping your leaders and schools at the top.

“Whether you’re onboard a spacecraft or in the classroom, it’s all about your people. As a leader, your people skills are more valuable than technical ones. Learning to better recognize, blend and communicate with different types of people will give you and your organization the edge in today’s modern world.” – Leroy Chiao

The associated workshops tie into the keynotes, providing real-world tools to immediately impact your education leaders. These workshops will energize your key people, and provide them with real-world tools. During core motivation analysis, participants learn not only about what drives them, but also how to recognize other types of people and shift communication strategies to be effective. Deep-dive into the keynote topics are interwoven with real world and “out of this world” scenarios and case studies to illustrate how to immediately apply new lessons.

Endeavor to the Next Level!

What does it take to jump to the next level? It takes the right kind of leadership to foster a culture, which emphasizes the rigor of operational excellence, but also encourages using collaboration, curiosity and creativity to take calculated risks and novel paths. It is also vital that your enterprise stays up to date on technology and innovation trends, to stay in the lead position.

During spaceflight, operational decision-making can make the difference between life and death, success and failure – especially during a crisis. But in some cases, it is the novel solution that saves the day. In this presentation, Dr. Leroy Chiao shares provocative and awe-inspiring stories from his four space missions, including nail-biting tales of real emergency situations, and shows audiences how lessons learned from spaceflight can impact their organizations. Using his personal

experience as the commander of a 193-day mission aboard the International Space Station, he illustrates how reaching for the stars is important, but even more so is honing the skills required to not only stay alive, but thrive.

In addition, understanding where innovation is driving technology trends is key to planning for the future. Having been in technology companies and NASA, Dr. Chiao is no stranger to this world. He offers an exciting glimpse into life in the future and shares insights on a world in which technology is accelerating much more quickly than ever before – presenting new opportunities for businesses poised to take action, or threats to those who are slow to adapt. He presents real-world examples of companies, which thrived or suffered depending on their ability to change with the times. Imagine a world in which you are connected directly to the Internet using thought-controlled computer augmentation and a virtual heads-up display. Imagine a life where personalized medicine allows treatments tailored to your genetics, where replacement organs are grown to be identical to your own.

Through awe-inspiring stories of his time in space and breathtaking photos, Chiao looks at what is coming around the bend and how organizations can take advantage of the next technological phase and form the right culture to jump to the next quantum level!



To the Stars! – Leaving Complacency Behind

Complacency in any organization leads to loss of efficiency and opportunities in the best case, and loss of the business or even life in the worst. Complacency is an insidious slow-burning problem, which usually begins and builds without anyone really noticing. In this thought-provoking presentation, hear an astronaut discuss success in space exploration and business using personal spaceflight stories and photographs, as well as failures at NASA and other organizations. Introductory case studies examine the symptoms, causes and effects of organizational and individual complacency. Learn how to use mitigation and maintenance strategies to leave complacency behind in your endeavor, to reach the stars!

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Dr. Leroy Chiao

Dr. Leroy Chiao is a former NASA astronaut and International Space Station (ISS) commander. He has logged over 229 days in space on four space missions, including six spacewalks supporting ISS design and construction. Educated as an engineer, he has held leadership positions in technology companies and startups. He is an expert on leadership and technology, and how to lead your enterprise to the next level.

In addition, Dr. Chiao holds university academic appointments, and speaks three languages including Mandarin Chinese and Russian. A father of twins, Dr. Chiao is also passionate about character-based education. He has been working with students and educators professionally since 2006.



Jami Sunkel

Jami Sunkel is a professional educator and NASA-certified Master Science teacher holding Master's degrees in both Curriculum & Instruction and Educational Leadership. Jami has over a decade of teaching experience, as well as three years' experience as an STEM Education Specialist in Colorado Springs, Colorado. Space science education, leadership, and effective teaching have always been her passion. Jami recently received a 2019 American Association of Aeronautics and Astronautics Educator of the Year Award.

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