PASO ROBLES SPACE INNOVATION & TECHNOLOGY PARK



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CAL POLY Digital Transformation Hub

Paso Robles, Cal Poly move forward on spaceport initiative

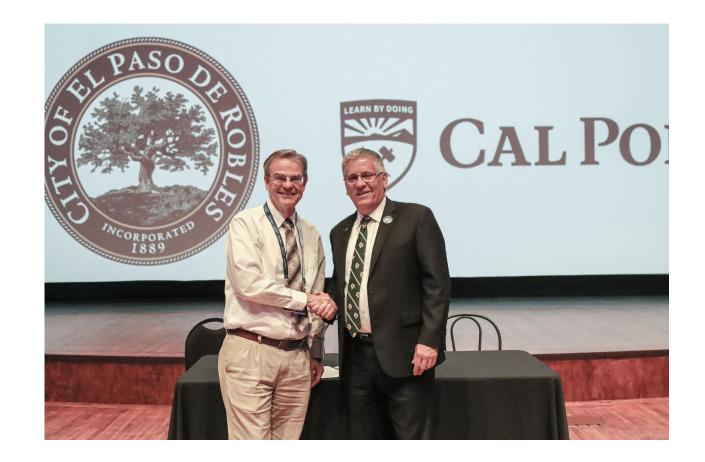
Posted: 8:28 am, December 13, 2022 by News Staff



University will produce workforce development training programs to help create a hiring pipeline for students















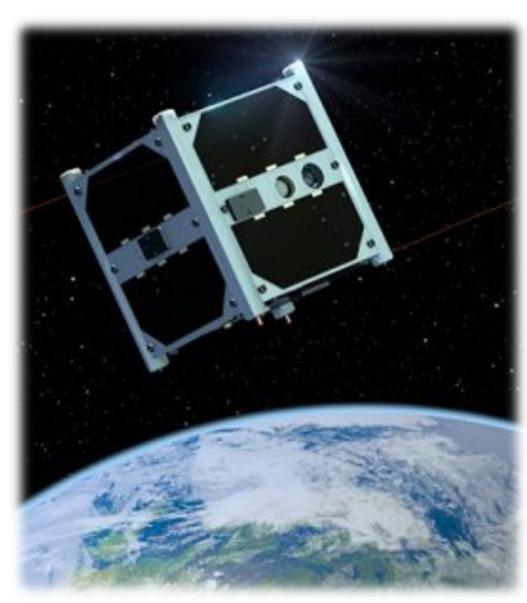




CAL POLY DIGITAL TRANSFORMATION HUB (DXHUB)

- AWS STRATEGIC RELATIONSHIP (CIC)
- REAL-WORLD STUDENT EXPERIENCES
- SOLUTION PROTOTYPING
- FOCUS AREAS
 - Public Sector Digital Transformation
 - Cloud Innovation Development
 - International Development Technology (WorldBank)
 - Space Operations Innovation (Space Force)
 - Workforce Development





CAL POLY LEADERS IN SPACE EDUCATION

•Co-Founders of CubeSats
•Creating opportunities in Cybersecurity & space
•#2 in Aerospace, Aeronautical, Astronautical Engineering (US News & world Report)



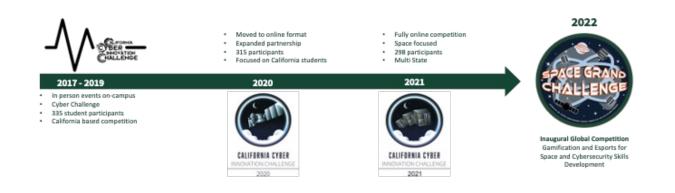
'CubeSats,' co-founded at Cal Poly, inducted into Space Technology Hall of Fame

Posted: 5:53 am, March 5, 2022 by News Staff



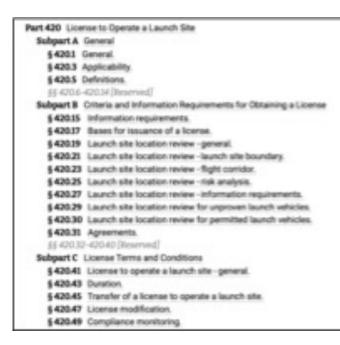
Cal Poly Professor John Bellardo, far right, measures a 3U satellite in the Cal Poly CubeSat Lab assisted by, from left Jordan Ticktin, a Cal Poly alumnus who works at NASA's Jet Propulsion Lab, and Ryan Luke, an electrical engineering student from Santa Maria. Cal Poly students have designed and built 12 CubeSats that were launched into space. Photo credit: Joe Johnston, Cal Poly.

SPACE GRAND CHALLENGE - CYBERSECURITY AND SPACE





FAA License Application





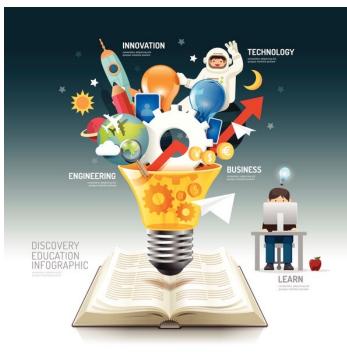


Space Industry Ecosystem Mapping

& Partnership Development



Education & Workforce Development Strategy





FAA LICENSE APPLICATION

Develop a comprehensive and collaborative application for the FAA license to operate a commercial spaceport, grounded in thorough research and procedures





· Prescribes information and demonstrations that must be provided to the FAA as part of a license application • Goes over requirements for preparing a license application Equivalent levels of safety

·Basic applicability of the license as well as general definitions

LICENSE TO OPERATE A LAUNCH SITE

Subpart B: Criteria and Information Requirements for Obtaining a License

General

Subpart A: General General

- Identifying who is the launch site operator(s)
- · Launch site descriptions: List of equipment types of launch vehicles, etc.

• Identifying foreign ownership

Environmental

- · Really long process that really will take the longest
- · Need to follow NEPA and CEQA standards and regulations
- · Will most likely be fully completed by third-party firm

Launch Site Location Review

- · Demonstrate that the launch site complies with certain standards
 - · This is where we must simulate that a launch vehicle can be launched safely from the launch point
 - · Flight corridors, launch site boundary, risk analysis
- Appendix A, B, C, D •Explosive Site Plan
 - Submission of explosive site plan that complies with certain standards
 - Appendix E
 - We are not a federal launch range so we do not have to comply to federal requirements

Launch Site Operations

Provide necessary information about what is to be conducted at the launch site that is consistent with standards

Subpart C: License Terms and Conditions

General

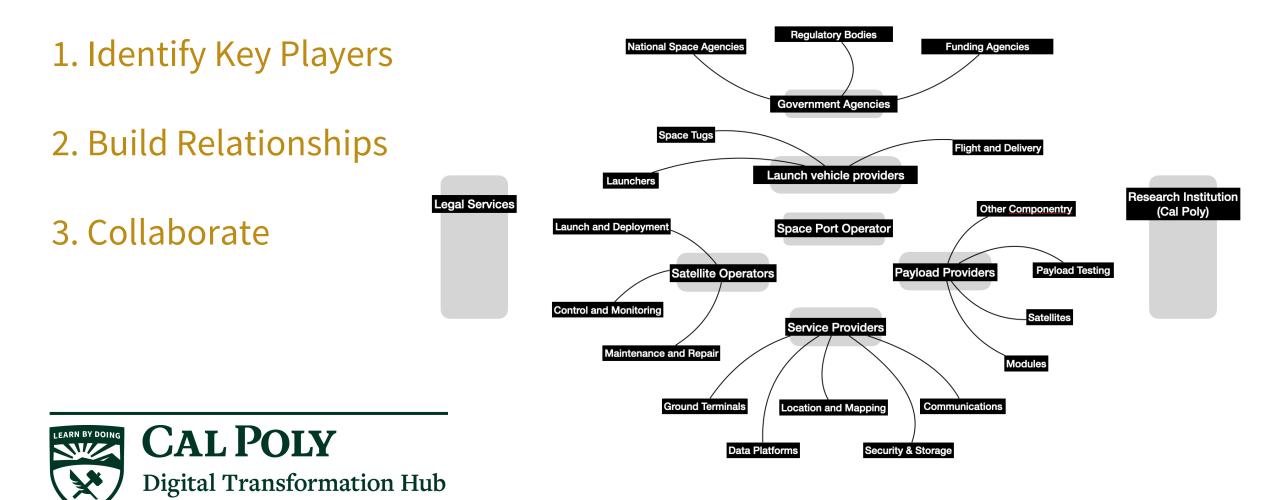
- "A license to operate a launch site authorizes a licensee to operate a launch site in accordance with the representations contained in the licensee's application, with terms and conditions contained in any license order accompanying the license, and subject to the licensee's compliance with 51 U.S.C. Subtitle V, chapter 509 and this chapter.
- A license to operate a launch site authorizes a licensee to offer its launch site to a launch operator for each launch point for the type and any weight class of launch vehicle identified in the license application and upon which the licensing determination is based.
- Issuance of a license to operate a launch site does not relieve a licensee of its obligation to comply with any other laws or regulations; nor does it confer any proprietary, property, or exclusive right in the use of airspace or outer space."

Subpart D: Responsibilities of a Licensee

General

A licensee must operate its launch site in accordance with the representations in its application.

SPACE INDUSTRY ECOSYSTEM MAPPING & Partnership Mapping



IMAGERY & COMMUNICATION STRATEGIES FOR NEW INDUSTRY







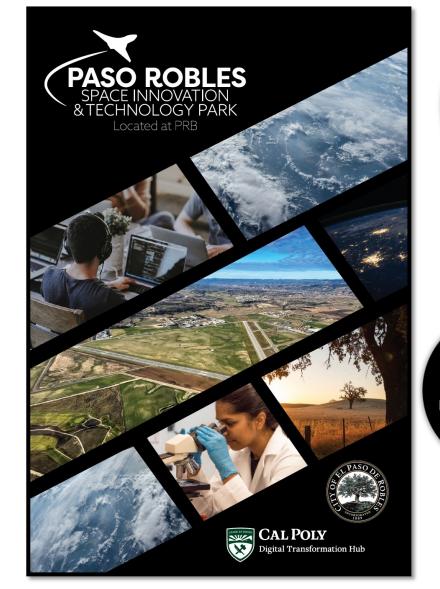














DISCUSSION, QUESTIONS AND NEXT STEPS



Matthew Bornhorst



Aerospace Engineering



Kendall Wilhite

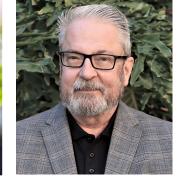
Miyu Nishii **Business**

Computer Science



Miriam Gabai Graphic Communication





Paul Jurasin Bill Britton

Dr. Elise St. John

Cal Poly Digital Transformation Hub





Paul Sloan City of Paso Robles Economic Development Manager

Mark Scandalis Paso Robles Municipal Airport (PRB) Airport Manager



CAL POLY Digital Transformation Hub

COME MEET US! LOWER LEVEL, LL3

Logan Schwarz





THANK YOU!