# A Journey to Leadership



City County 2022 Conference April 7, 2022

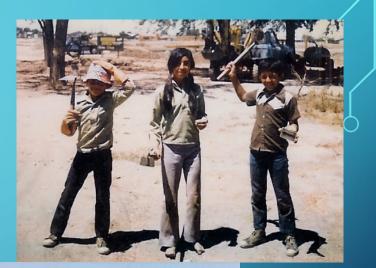


Dr. José M. Hernández Astronaut President and CEO Tierra Luna Engineering, LLC



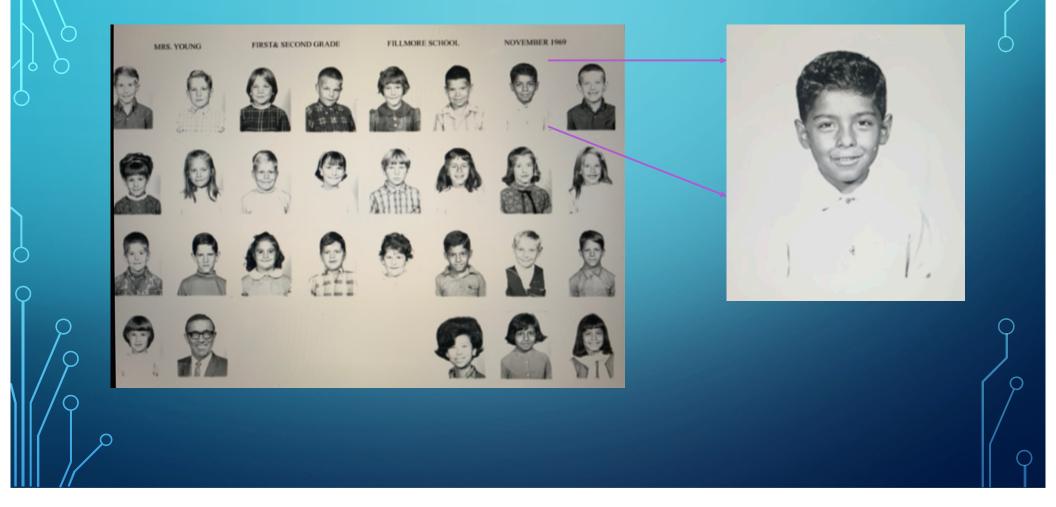
#### **MY STORY**

My childhood
Start of a dream
The effect of empowerment
The long journey
The importance of perseverance





#### Ms. Young's First and Second Grade Class



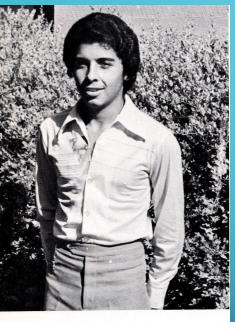
#### **MY FATHER'S RECIPE TO SUCCESS**

- 1. Define your goal
- 2. Recognize how far you are from it
- 3. Create a roadmap to get there
- 4. Education is key
- 5. Develop a strong work ethic
- 6. Persevere, never give up!

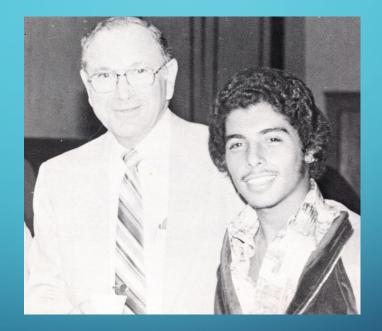


Liftoff of Discovery STS-128 Mission

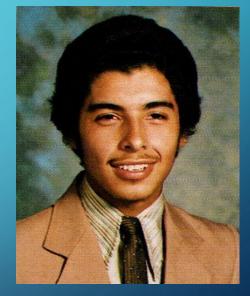
### **GETTING INVOLVED IN SCHOOL AND THE COMMUNITY**



Jose Hernandez—President Randy Deal—Vice-President Marla Wright—Secretary Leona Williams—Treasurer

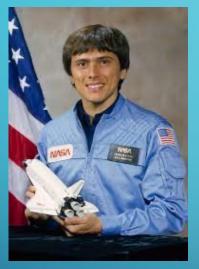


Meeting with SUSD Superintendent Dr. Leon Lessinger



Official Yearbook Picture

#### **ROLE MODELS AND BEING ONE IS IMPORTANT**



Selected by NASA in 1980



Dr. Franklin Chang-Diaz veteran of Seven spaceflights

#### **MEETING FAMILY OBLIGATIONS**

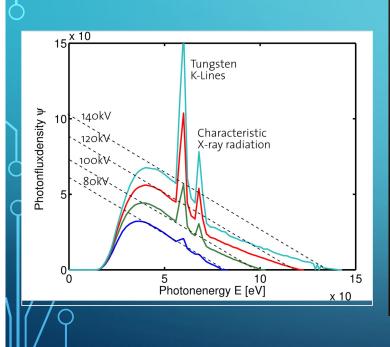


#### THE X-RAY LASER PROGAM AT LAWRENCE LIVERMORE NATIONAL LABORATORY



Artist rendition of and X-ray laser

#### Innovation Creates Opportunities



#### **Fischer Imaging SenoSCAN**



#### Digital Mammography System Aided By Sept 26, 2001 Collaboration With Livermore Researchers Receives Fda Approval

LIVERMORE, Calif. – A Denver, Colo. company that worked with Lawrence Livermore National Laboratory researchers announced Tuesday that it has received Food & Drug Administration approval for its digital mammography system.

Fischer Imaging Corporation partnered with LLNL from 1993 to 1996 on digital mammography work under a Cooperative Research & Development Agreement with the Lab's Engineering Directorate. While traditional mammography technology uses film to recLord the X-ray image, Fischer's new SenoScan digital mammography system records the image electronically.

Digital breast imaging opens the door for many changes in the practice of mammography, in the view of Livermore mechanical engineer Clint Logan, who headed the Laboratory's collaboration with Fischer.

With this technology, images can be acquired at one location and then be rapidly transmitted by computer to another site for interpretation.



Co-developed the first full-field digital mammography system

#### **BEING STRATEGIC WITH YOUR CAREER**

Megatons to Megawatts Implementing HEU Transparency Measures





35 Metric Tons HEU Processed 30 25 20 15 Projected 10 5 Actu 0 1995 1996 1998 1997 1999 2000 2001

The actual quantity of HEU already processed and the amounts projected for processing by 2001. To date, sixty (60) metric tons of HEU from dismantled Russian nuclear weapons have been downblended to LEU. According to the IAEA's definition of a significant quantity (1987 IAEA safeguards glossary), this would be enough to make approximately 2,400 nuclear explosive devices.



Artists concept of a fuel rod assembly being installed in a nuclear power reactor.

#### **TRAINING AS AN ASTRONAUT**



NASA Extreme Environment Mission Operations (NEEMO)







#### WILDERNESS SURVIVAL TRAINING









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## Getting ready to go to space





# LIFT OFF !



# **STS-128 MISSION VIDEO**



3-Element Strategy to Reaching Your Goal

Know the minimum requirements
 Compare yourself to people you want to be like

Differentiate yourself from the competition

# Just remember that whatever it is you are doing, don't be afraid to enjoy the journey!



Zero G Training on the KC-135 Vomit Comet

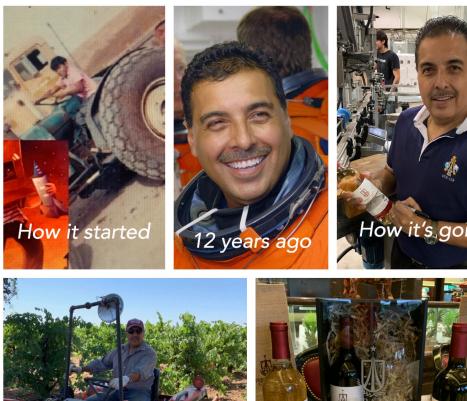


With my son on a Zero G Flight

#### **STAYING INVOLVED WITH YOUR COMMUNITY**







WOODS1

How it's going

# Order Books at: TierraLunaEngineering.com



#### **Hot Off the Press - Movie**

Amazon is producing a film portraying the life story of astronaut Jose Hernandez, a former migrant farmworker, who flew in space on Space Shuttle Discovery STS-128 mission in 2009



Alejandra Márquez Abella to Direct Biopic of Mexican American Astronaut

#### **Reaching for the Stars Foundation**

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LinkedIn: Jose M. Hernandez



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