

Hi! I'm Tawni Slade



English

Maru naam
Riyana Patel che



Gujarati

Ya'a'teeh,
Elena Klopfenstein
yinishye



Diné (Navajo)



We Can Do Hard Things!!!



Because We Are 2486, the CocoNuts!!!



~50% of Nuts are people of color
9% Hispanic
27% Indigenous
9% Asian



e-Edition

NAVAJO-HOPI
Observer

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KARMA event allows educators and families to explore culture with engineering



We attended the Acknowledging Culture in 21st Century Learning Conference at Northern Arizona University

Brought to light to the challenges of STEM on the reservation



**We have reached 47,000+
people with outreach
At over 100 events!!!
(That is over half the
population of Flagstaff!)**



**Junkyard robots allows
students to fail safely
and learn valuable skills
like creativity and
perseverance.**



In the past 3 years the “Tambien Lo Puedo Hacer (I Can Do It Too)” STEM Fair



has reached 400+ students with 30+ vendors.

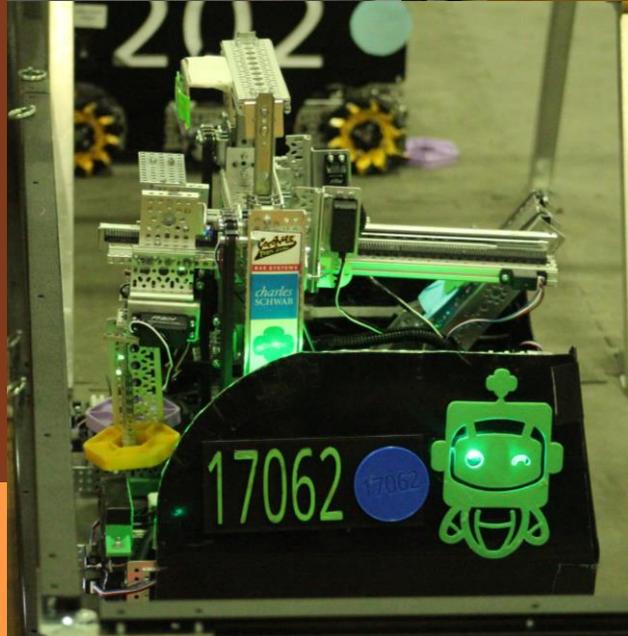




We are the Program Delivery
Organization for AZFTC.

CocoNuts Registration Relief Grant
was created to make cost low for
FTC teams.

In the past three years we've
donated \$2,700 to 19 teams.





We created 2 new FTC qualifiers in Northern Arizona.

We are known to help rookie teams to build & program competition robots in less than an hour.





We are the only team that runs a statewide program.

21 new FTC teams; 87 teams competed in 10 qualifiers.

48 teams at AZFTC Championship.





FLL in a NutShell
**Nuts mentor
teachers/coaches**

21 new teams

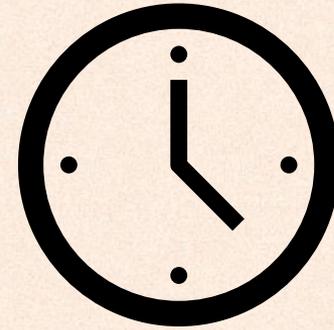
**Teachers can earn 12
Professional Development
hours from Northern
Arizona University.**





Kagen Photography

**We've run 34 FIRST events
+
Supported 35 others**



**This is 12,500 hours
(~1.5 years) of
volunteer hours**





**The National Advocacy
Conference
Held in Washington D.C.
in June**

**We are the only team
representing AZ**



Meetings with the offices of...

Mark Kelly



Kyrsten Sinema



Elijah Crane



Lead to the passing of the CHIPS Act and fully funding the Every Students Succeeds Act!!!



Arizona Advocacy Conference (AAC)

We created AAC because AZ is #48 in education funding.

We got 7 FIRST teams from across AZ and taught them to advocate.

Teams demo robots on the AZ capitol lawn and met with 18 different legislators



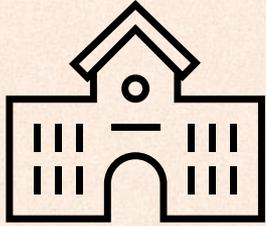


Because of ACC and Senator Cook we and team CPR got put into the state budget.

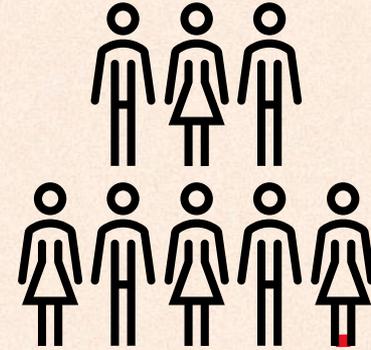
We were allocated \$30,000 for the next 3 years.

The 2nd Annual AAC is happening in May





36% of Native Americans drop out of either middle or high school.



0.4% of STEM workers are indigenous.



We love
our home





We created the “Diné
People Are The Future”
STEM Fair



There we met NTEC
who became our allies.



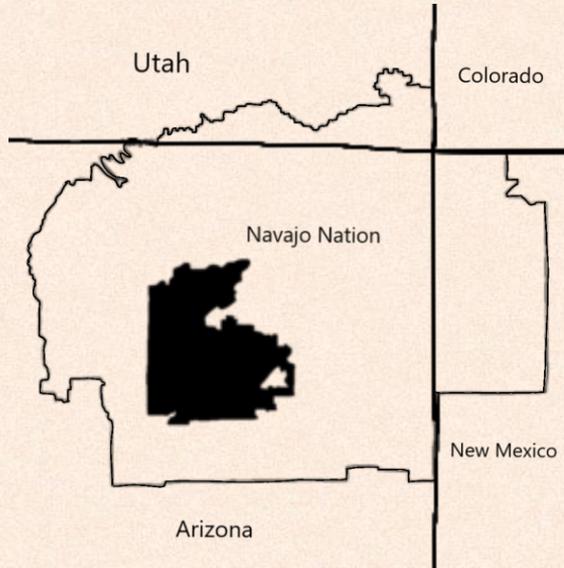


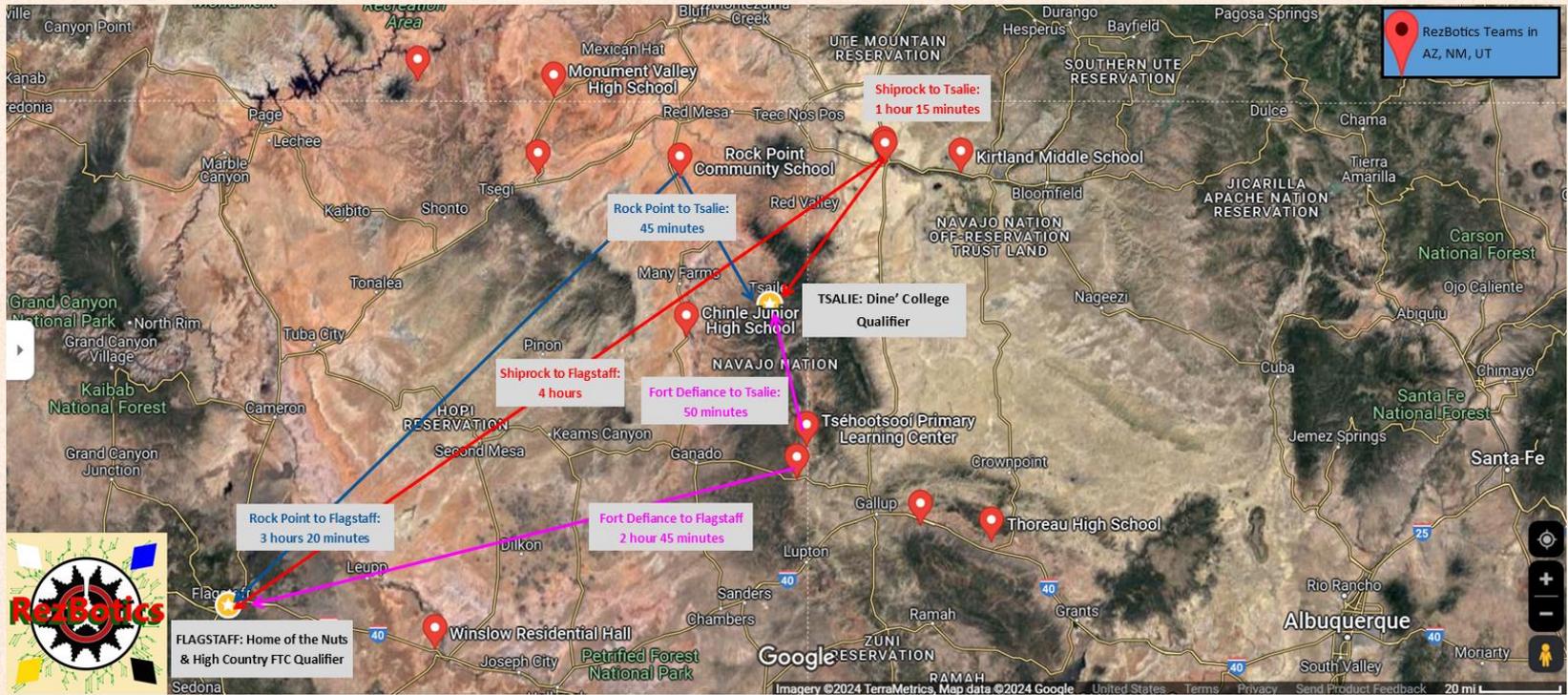
The reservation teacher attrition rate is 28% higher than Arizona.

Held an FTC workshop on the Reservation.

Built communication networks.

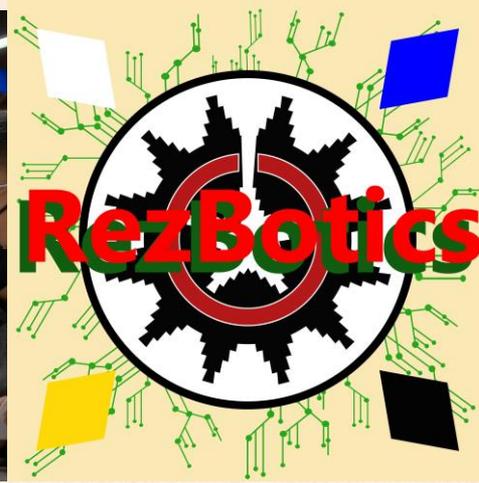
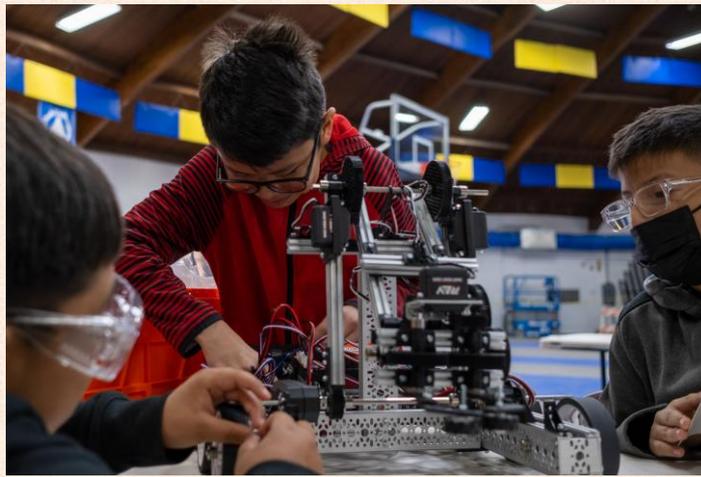
NTEC bought the robot kits and Nut's got rookie grants.





Reservation teams are hundreds of miles apart.





Held the first ever all-indigenous qualifier on the Navajo Nation.

This reduces travel time for teams, making FIRST more accessible.





FIRST gave us permission to
send the Inspire winner of
RezBotics to **WORLD
CHAMPIONSHIPS!!!**

**Congrats to 16817 Rocksisaan
Tech from Navajo Mountain,
Utah!**





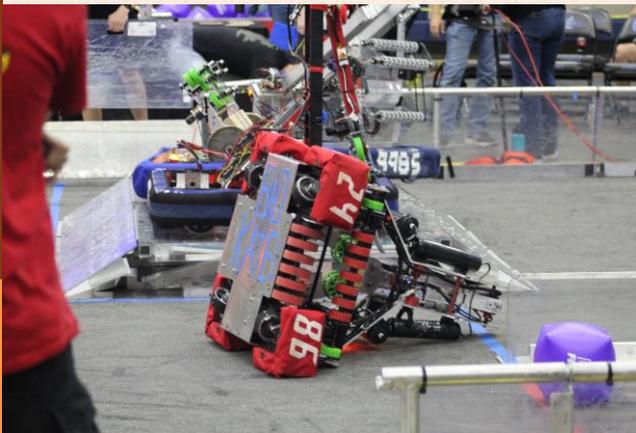
“I was expected and encouraged to be better.

I am showing my people that we are far better than they believe they are.”





I Can Do Hard Things!!!



CocoNots
Team 2136

CocoNets

Team 2486

Thank You!





THANK YOU SPONSORS & PARTNERS...



ARIZONA DEPARTMENT OF
EDUCATION



BOEING

optimum.



Employee
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for making hard things possible!





CocoNut & AlumNut Internships:

- Cultural Academic Research Experience
- Girls who Code
- Fleischer Scholars Program
- Student Association for STEM Advocacy
- AISES Research
- NASA JPL
- SPARKing Curiosity in Quantum Science
- T-GEN North
- 4 Corners Scientific Computing Group
- Indigenous Environmental Tribal Professionals
- Grand Canyon Youth
- Certified SolidWorks Associates



In the last 3 years, AlumNuts have been offered over \$3,000,000 in scholarships!

AlumNut Colleges & Universities



1/3 of ALL AlumNuts are 1st Generation College Students



2023 AZFTC KICKOFF WORKSHOPS

- **Volunteer Management System**
- **FTC for Rookies**
- **Rookie Coach Q&A**
- **Ethics**
- **Advocacy 101**
- **Expand your Opportunities using your FIRST experience**
- **Volunteering at a FIRST event in a Nutshell**
- **How to Organize a STEM Event**
- **Snack n STEM**
- **Engineering Portfolio**
- **Swag!**
- **Coach Café**
- **FTC Dean's List**
- **Fundraising**
- **OnShape**
- **FTC Judging Process**
- **Fusion 360**
- **Coding as a Team**
- **Mechanical Design**
- **FTC Game Strategy**
- **Control System Introduction**
- **ASU School of Robotics & Manufacturing**
- **JAVA Introduction**
- **Control System Updates**
- **Sensors**

HOSTED BY NUTS, MENTORS OR ALUMNUTS!

(+Swerve Drive in a Nutshell for FRC!)



Tambien and Diné STEM Fair Organizations

- Coconino High School JROTC
CyberPatriot Team
- NAU College of Engineering,
Informatics & Applied Sciences
- Tynkertopia
- TGen
- Flagstaff STEM City
- W.F. Killip Elementary School
- NAU/NASA Space Grant
- Sinagua Middle School MIT-e Program
- Arizona Science Center
- NAUaeyc
- NAU / STICH
- SciTech Institute
- Coconino Community College
- CAVIAT Coconino Association for
Vocations, Industry, and Technology
- SparCQS (NAU)

Indigenous Serving STEM Organizations

- BIA Fire Management, Navajo Region
- ITEP-Environmental Education Outreach
Program
- Department of Energy- Office of Legacy
Management
- Four Corners Science and Computing Club
- Cultural Academic Research Experience
- Navajo Nation EPA





Lunar Legacy Invitational

- Every Apollo astronaut trained in Flagstaff
- NASA continues to test hardware there
- Artemis ROADS challenge: Teams build a LEGO robot to explore the moon, design a mission patch, discuss mission objectives with judges
- FLL & Artemis teams came to NAU for 2 days of challenges – rockets, landers
- “Flagstaff’s Lunar Legacy” challenge was a series of missions that we created that teams had to program on the spot
- Field trips to Lowell Observatory
- Guest speakers from USGS – Mars rover scientists
- Teams came all the way from Delaware!



Diné (Navajo) Nation Cameron, Arizona



“FIRST Inspires Students in Rural Northern Arizona” Video

- For 3 days, a professional video crew from FIRST filmed in Flagstaff, Cameron & Leupp.
- The video is told through our voices, and highlights the challenges of getting STEM on the Reservation.
- It premiered at the FIRST’s Inspire Gala in Miami, their biggest fundraiser of the year, with guests Dean Kamen and will.i.am!
- It’s now on the official FIRST YouTube Channel.

