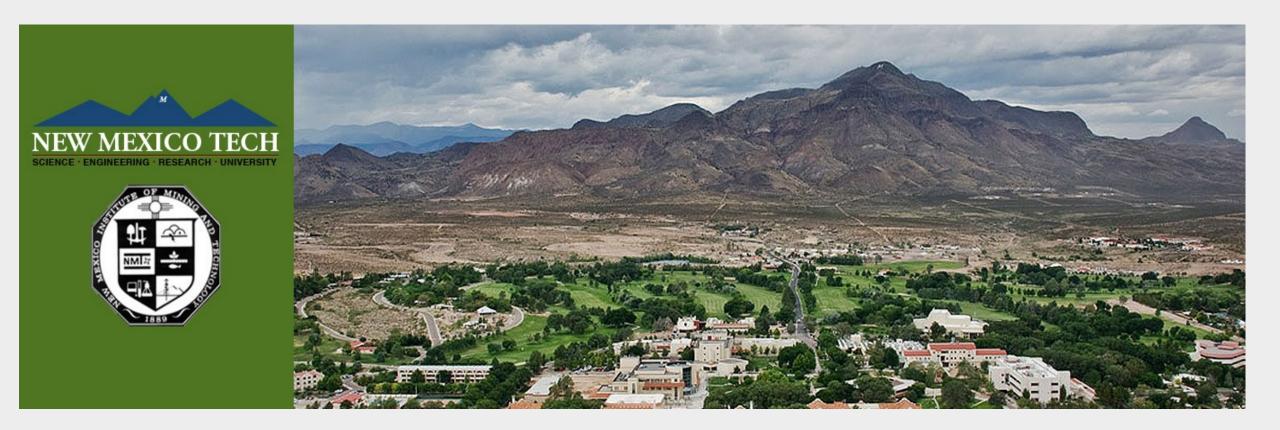
Tech Amateur Radio Association

Maintaining Student Interest Through Modern Projects

Skyler KGØSKY



New Mexico Tech

Socorro Radio Clubs

•TARA

•SARA

What grabs student attention?

- Space
- Flashy Projects that Makes cool stuff happen
- •Stuff they can get involved in and build on their own for cheap
- New Technology

Actually using computers, not just radio linux etc.

•Free Food

What does not grab student attention

- Just talking to people around the world
 - "Um ... Use Skype, or any other app everyone and their dog can make"
 - Boring Meetings with nothing but talking

Lots of Math (Already have enough of that in all the classes)

Space Vehicles LLC

- Freshman EE Hands-On intro class
- Learn Arduino microcontrollers and basic electronics
- Final project Balloon Launch
- Many students inspired to get license after learning the capabilities of tracking and communications to the balloon

Balloon Launch!

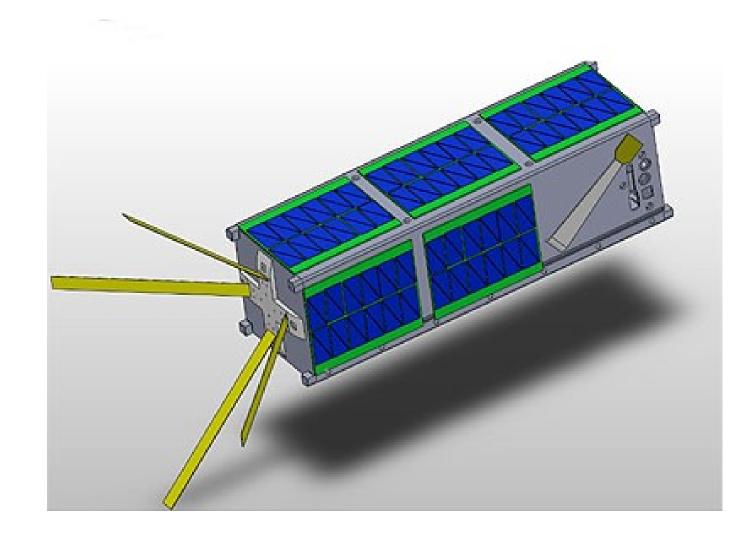






NMTSat

- Structural health monitor
- Electrical health monitor
- Langmuir Plasma Probe
- Magnetometer



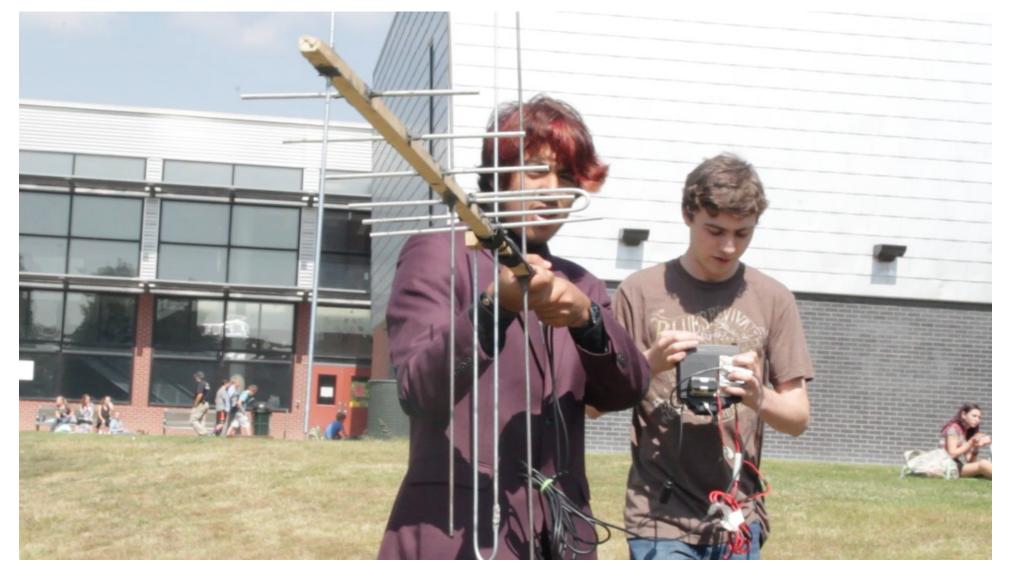
NMTSat Ground Station







Fox Hunts



Large Scale Fox Hunts!!!







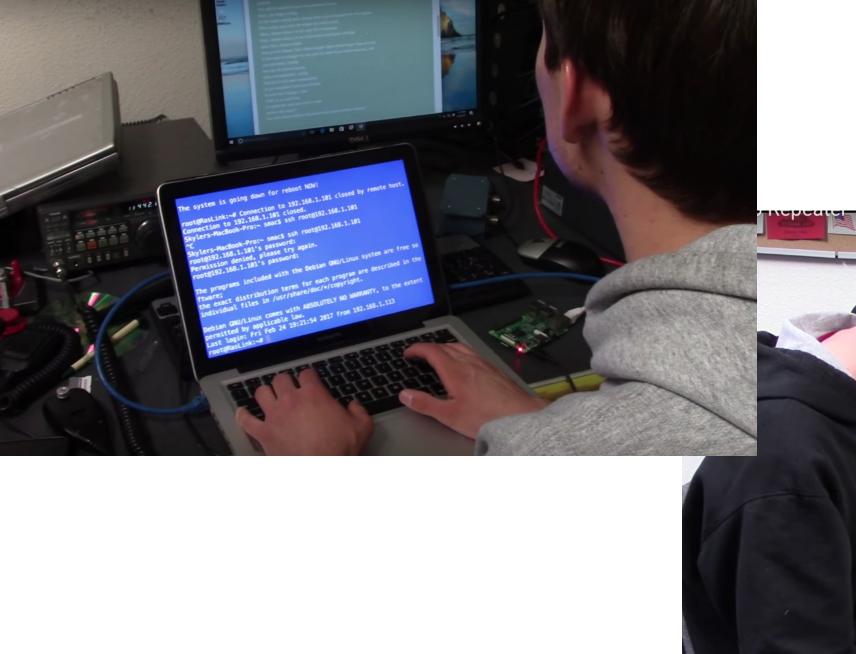
AllStar Link

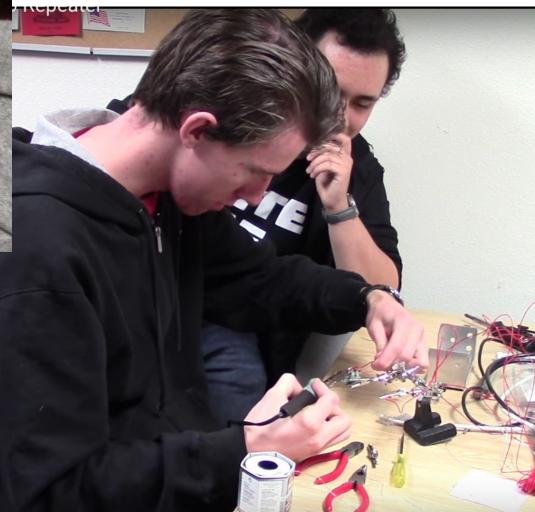
 Interested in new modes for UHF/VHF technician, but nobody has fancy digital Radios

- Everyone has a Baofeng
- Unlimited Linking Capability , very cheap to build repeaters/ nodes and all scriptable in linux
- Analog_bridge

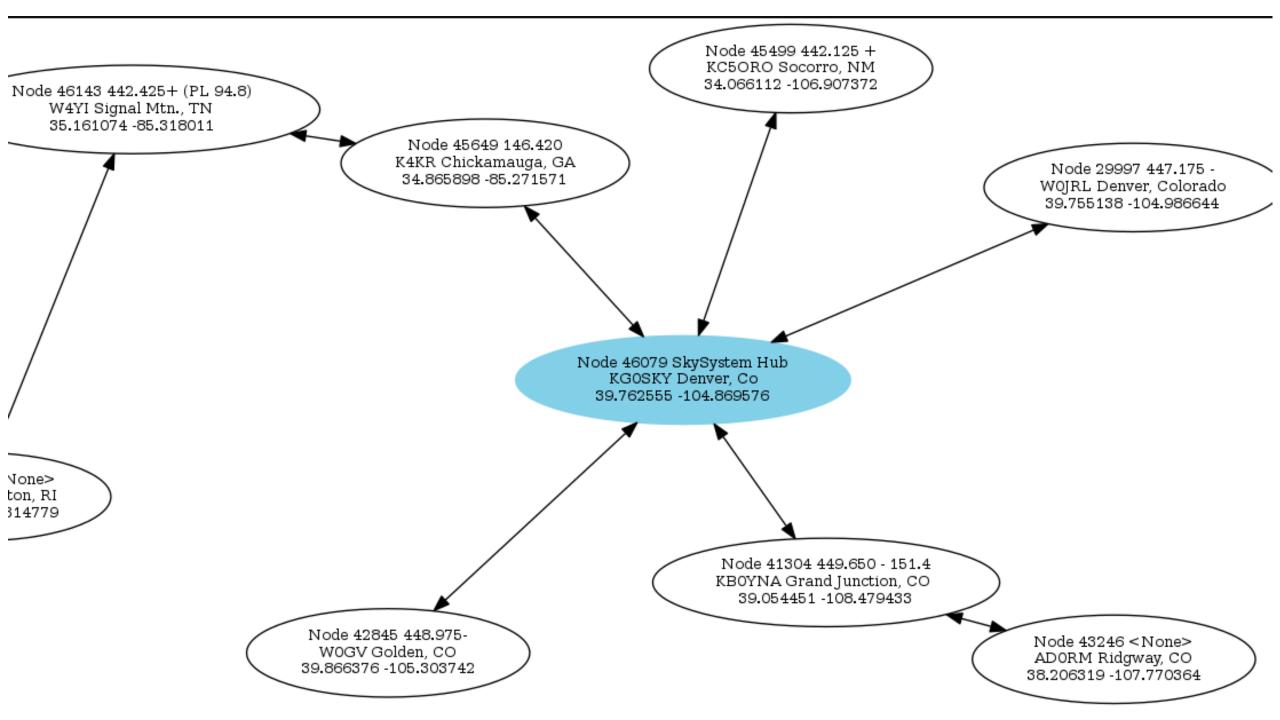
TARA Repeater Project











New TARA Repeater Project



West Peak Electronic Site (TARA PLANNED)

East Peak Electronic Site

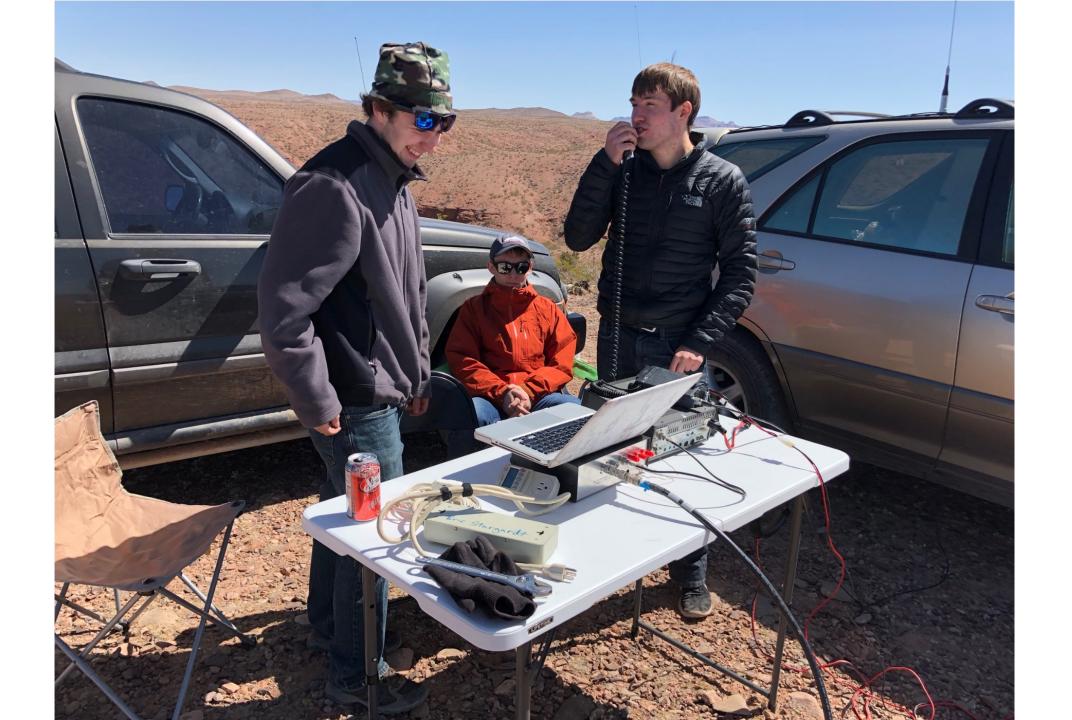
M Mountian



- •Operated 100% Solar
- Middle of
 Quebradas Back
 Country









Spreading Ham Radio to other student groups

•Socorro Search And Rescue

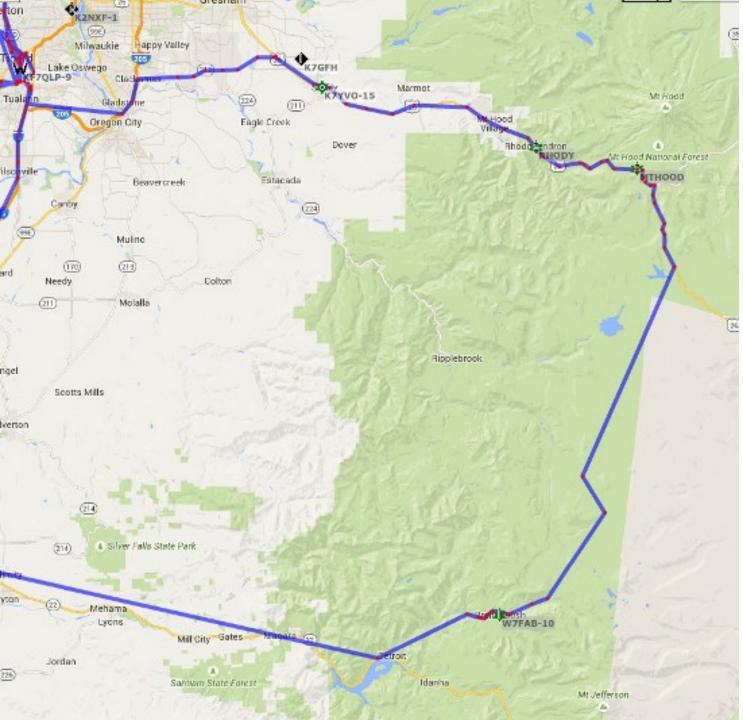
•Tyler KI6WSS



NMT Off-Road Club

•Works much better than CB for maintaining comms in the middle of nowhere







How I got interested in Ham Radio

• Anthony Salazar

Conclusion / Questions