

## Production Facility Set to Open

Continuing in ThumbSat's history of operating on a global scale, ThumbSat is pleased to announce the opening of its manufacturing and testing facility in Tijuana, Baja California, Mexico!

Located in the research park complex of the Technology University of Tijuana, ThumbSat has partnered with MXSpace, Simple Complexity and local and national government agencies in Mexico to bring a modern electronics manufacturing and testing facility to one of Mexico's most exciting cities.

The clean room facility will house all of the equipment required to manufacture and assemble ThumbNet tracking stations, ThumbSat satellites and ThumbSat Deployer Mechanisms as well as perform all of the required testing to ensure the satellites are ready for launch into space.

Commissioning and start-up of the factory will be completed by the end of December, with full production beginning in January 2016.

Testing capabilities of the laboratory include hot and cold thermal cycling, 3 axis random and sine wave vibration, vacuum, and complete electrical and operational verification. The facility can also be used to support other researchers or students at the UTT complex, when not needed for ThumbSat.

ThumbSat is very proud to work with all of our international members and partners and to continue to build a global community for the benefit of everyone. We truly are: Unlocking Space For Everyone!

*"What?! You mean that  
satellite thing is for real! ..."*

*- Houston Mini Maker Faire*



New Production Facility in Tijuana

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Houston Mini Maker Faire, November 14, 2015

## Houston Mini Maker Faire

ThumbSat was invited to the [Houston Mini Maker Faire](#) in November and what an exciting day it was! We appreciated the opportunity to see some really cool exhibits while promoting ThumbSat!

The Faire opened at 10:00am and the stream of visitors to the ThumbSat booth started soon after! The questions we were repeatedly asked: What is ThumbSat? What does it do?

We think no explanation is needed for what it is (you've no doubt got that by now!). As for what it does, well, what do you want it to do?

## Science, Technology, Engineering, Art, and Math

The sky is the limit (well, even that's not a limit!) when it comes to what ThumbSat can do. Experiments, poetry, imaging, magnetized fluids, and personal Farewell World Tours are just a few of the uses we have been approached with. Messages of love (the ultimate proposal!) or even music are also possibilities. What excites us most is that we believe that the user community will identify countless uses for the ThumbSats in areas that we haven't even thought of yet!

## Get Wired!

ThumbSat was featured in the October 2015 USA issue of Wired Magazine!

If you missed it, click [here](#).

What a great bit of exposure for our tiny satellite and Thumb Community!



Wired Magazine, October 2015 USA

Show some love and shop the store [here](#)!



## Danny H.

Danny H. is a high school student in Pennsylvania, in the United States, who is extremely interested in space and aeronautical engineering, and has been a fantastic supporter of ThumbNet!

Danny has received admission letters to Embry-Riddle, the University of Alabama at Huntsville, and Penn State, all for Aerospace Engineering! He has visited the campuses and talked with staff and researchers at all three locations. Now, it's time for him to make the hard choice of which school to attend!

He is currently working to complete his senior high school project. His topic? ThumbNet of course!

Since the ThumbNet procedures are simple and the equipment required is so basic, Danny hopes to show how the ThumbNet project can be used to bring people from various communities and cultures together to increase education about space and engineering.

Thank you Danny, for being a member of ThumbNet. We wish you the best of luck in whichever school you choose to attend!



Danny H., Pennsylvania, United States

## Enter ThumbNet

Once the ThumbSats are in orbit, then what?

How will transmitted data get captured? Where is it captured? Who does the capturing? This is where ThumbNet comes in!

ThumbNet is a project geared to interest students (and individuals) around the world in Science, Technology, Engineering and Mathematics (STEM) concepts by using manual or automatic tracking stations and a laptop computer to monitor satellite communications.

Students working together around the planet become a community, and a global radio tracking network is established that can be used for continuous coverage and support of satellite operations by the ThumbSat team.

# Why ThumbSat?

ThumbSat was born from our own frustration at not being able to find someone to get our own experiment into space quickly, cheaply and efficiently, despite our space engineering experience and contacts, and the advances in miniaturization.

We've worked hard to make ThumbSat the sort of tiny platform for space experimentation that would have been useful for us. Many people seem to latch onto Earth imaging and communications when thinking about how a satellite can be used, but there are so many other people doing this, with much larger satellites, that there's no point in reinventing the wheel. ThumbSats can be used to image the Earth, but that's not very creative and they can be used for so much more. Everything from grabbing a promotional 'selfie' image of the ThumbSat and its decorated tail, to large projects helping to monitor and remove space junk.

You'll discover that there are plenty of reasons to put a payload or experiment into space, but how does that work with ThumbSat? The equation is simple: **Your Experiment + ThumbSat = Great Results!**

**ThumbSat: Unlocking Space for Everyone**

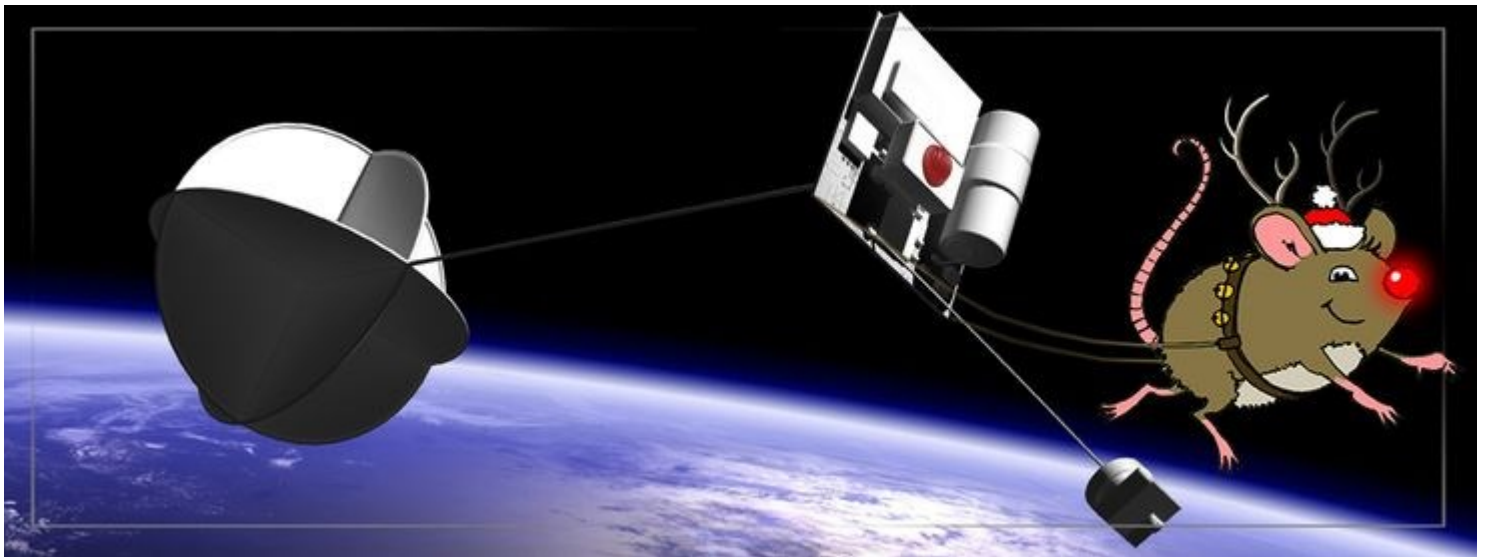
## Contact Us

**ThumbSat**

[Comms@thumbsat.com](mailto:Comms@thumbsat.com)

Visit us on the web at  
[www.thumbsat.com](http://www.thumbsat.com)

Twitter [@ThumbSat](https://twitter.com/ThumbSat)



**Happy Holidays from Rudolph the Red-Nosed Rodent!**