

Save the Dates!

Mark your calendars, we've got 3 big events coming up!

- **Las Vegas Regional**
  - April 1st–3rd.
- **North Dakota Regional**
  - March 10th-13th.
- **Night in Pair of Dice (Sponsor Night)**
  - March 29th

Weekly Workshops

Our students have been incredibly busy and hard at work! Now that we have officially entered October, we are finally diving into the exciting phase of designing and prototyping our T-shirt cannon. As our students brainstorm, collaborate, and develop creative concepts to create this project, they are doing much more than just building a functional mechanism.

Through hands-on experience, they are working on critical concepts, problem-solving skills, and teamwork dynamics that will serve as the main baseline for our upcoming on-season. This will help them with the knowledge and technical proficiency they will need to tackle our future competitive challenges perfectly!



Programming

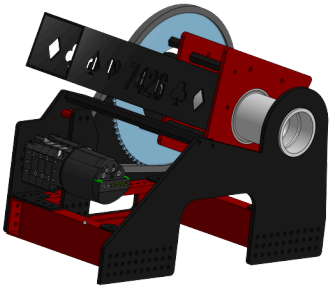


Prototyping



Fabrication

T-Shirt Cannon Progress



Our design team has officially completed the CAD for the pivoting mechanism, the most complex sub-system of the entire shooter! This mechanism is engineered to rotate the upper sub-assembly (the shooter and magazine) using a complex power transmission network. To make sure our performance is perfect, we integrated custom team logos that proudly showcases our team branding while strategically removing weight. Our focus for this week is fabricating the pivot components, aiming for full assembly by next week. Meanwhile, the design team will transition to CADing the magazine indexing system.

Sponsor Donation



Powder Addiction

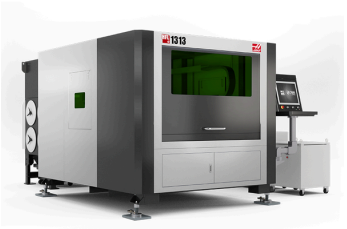
For the past 3 years, we have been so grateful to Powder Addiction for their loyalty. Thanks to them, our robots have been powder coated and look AMAZING! Last month, Joey, the owner of Powder Addiction, stopped by the shop to see what we've accomplished since last season and what's happening as of now. He also opened his doors to a group of our students and taught us about the powder coating process, and is committed to mentoring us as we learn this skill.

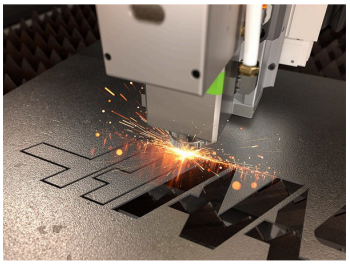
This year, in addition to the powder-coated parts, Powder Addiction has agreed to additionally sponsor our team with $5,000!

Thank you so much to everyone at Powder Addiction that made this happen. With your support, we're able to accomplish so many things.

Current Team Needs







HFL 1313 3kW - Haas Fiber Laser

Right now, cutting plates and tubes means waiting on our CNC Router Table, which gets the job done, but it's slow, messy, and the learning curve is steep. This fiber laser would change that , allowing us to cut parts in-house, in minutes, not hours or days.

- Faster iteration = more design revisions tested before competition = real competitive edge.
- Safer, more forgiving than traditional machining - new students can get hands-on faster.
- Serves both programs year-round: Advanced Manufacturing gets an industry-standard machine for certifications; FRC 7426 gets custom parts on our own timeline.

One investment, two programs, immediate impact.
Initial Cost - US$82,235.89

We WIll Match Your Donation!

Bigotes del Espacio (Space Whiskers)



We believe in everyone having the opportunity to enjoy our children's book. Since the start of the school year, our students have been planning out the making of our new Audiobook, *Bigotes Del Espacio,* the Spanish version of Space Whiskers. After working on the script, rehearsing, then finally recording and editing it, it is now available for everyone for **FREE!** This book is for all. If you are a fluent Spanish speaker, or even learning Spanish, make sure to take a listen. We are also happy to say that our physical copy will be coming out soon. We can't wait for it to be published!

Check out the rocket-curriculum shown in the book!

Summer Camp '27: Coming Soon!

Our mission is to introduce our community to STEM through robotics. Because of this, we've decided to create a summer camp for the summer of 2027! Details will be released soon as we finalize dates.

Student Highlight: Student of the Month



As a leader on our fabrication team, Enzo is one of the most dependable students in our shop. He teaches newer members to safely use the router table, mill, and lathe, turning students who were once intimidated by the equipment into confident machinists who will soon be fabricating parts for our robot.

Enzo is also writing and maintaining our Fabrication Standard Operation Procedures (SOPs), giving current and future students a clear guide to working safely and accurately. And beyond our own team, he mentors a FIRST LEGO League team, helping younger students discover their love of STEM.

Thank you, Enzo, for your skill, leadership, and generosity. Congratulations on being our Student of the Month!

What's Next?

We are so proud in everything we've done in just the past 2 months! Creating new outreach initiatives, having our returning members teach our new members, finally releasing Bigotes Del Espacio, and getting closer and closer to finishing our T-Shirt cannon!

Make sure to not miss next month! It'll be by far our busiest month as we approach kickoff. Thank you for helping our goals to inspire the next generation of STEM leaders!



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