Black Moon Systems

2026 REBUILT Season

SPONSOR IMPACT REPORT

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FRC ENIGMA 9080 · ENIGMA Green is Everywhere

Gold

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FRC PROGRAM

FIRST Robotics Competition (FRC)

Learn more: https://www.firstinspires.org/robotics/frc

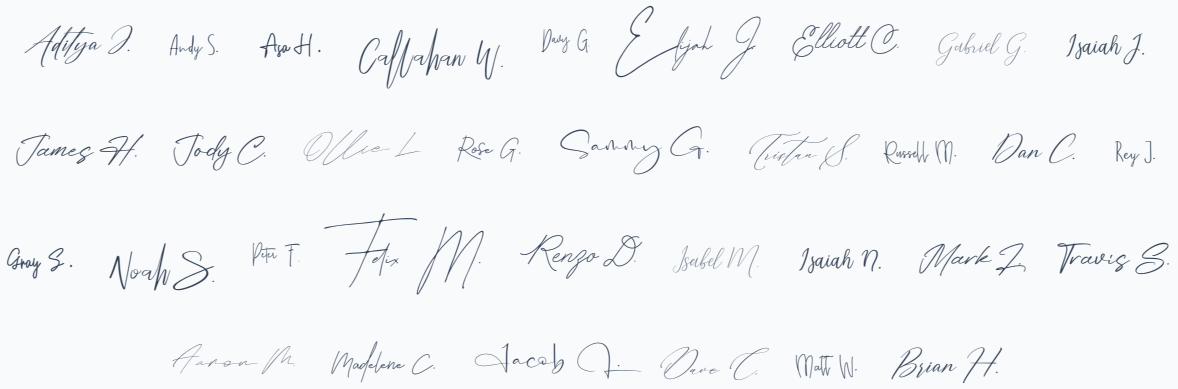
A MESSAGE OF APPRECIATION

“ENIGMA 9080 would not be the team we are without the support of our sponsors. Your investment does far more than help us buy robot parts, tools, registration, and travel support. It gives students the opportunity to discover engineering, programming, design, leadership, communication, and problem-solving in a real-world environment.

Because of your support, our students are able to build competitive robots, mentor younger teams, volunteer in the community, represent New Mexico at regional events, and grow into confident leaders. You help make it possible for students to take an idea from a sketch, to CAD, to fabrication, to competition, and along the way learn lessons that will stay with them far beyond robotics.

This season, your support helped ENIGMA continue building a stronger foundation for the future through new equipment, improved pit organization, outreach events, team mentorship, and hands-on STEM opportunities for students across multiple FIRST programs. Every match we play, every student we mentor, every robot we demo, and every problem we solve is connected to the generosity of people and organizations who believe in our mission.

Thank you for believing in our students, our team, and the future of STEM in New Mexico. Your partnership helps us build more than robots; it helps us build confidence, character, community, and the next generation of innovators.”



About FRC ENIGMA 9080

Enigma's first FRC season was Charged Up 2023. We are a community team located in Albuquerque, New Mexico. We are currently growing our team and actively recruiting new members from grades 8-12. Our goal is to establish ourselves as helpful alliance members. We work hard at having fun and learning the concepts of STEAM education as we build really cool and effective robots. We are FRC Team 9080 ENIGMA

By the Numbers

21 Students	**1** Imagery Award	**6** Industry mentors	**3** Competitions
6 FIRST Alumni Mentors	**30+** Outreach Volunteers	**1200+** Cumulative Hours	**4** Graduating Seniors

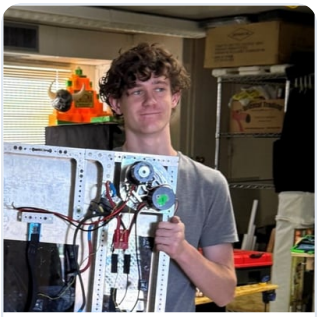
Connect with the team

Instagram: https://instagram.com/enigma.robotics
YouTube: https://www.youtube.com/channel/UCziMRJj5j_hRYlwlJgXOjoQ
Facebook: https://www.facebook.com/enigma.robotics.program
Team Website: https://enigmafrc.com

Students

Aditya J.

- Rookie Year
- Builder
- Wiring & Soldering
- Learning Java Code



Andy S.

- Builder
- Assembly
- Fabricator

Asa H.

- Builder
- Fabricator
- Drive Team
- Technician
- Wiring & Soldering
- Assembly
- Outreach
- Fundraising
- Electronics
- Safety Captian
- Rookie Year

Callahan W.

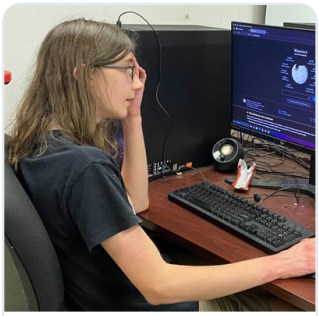
- Team Co-Captain
- Builder
- Wiring & Soldering
- Electronics
- Drive Team

Davy G.

- Skilled Java Coder
- Skilled Vision Coder
- Skilled Autonomous Pathing
- Learning Java Code
- Team Spirit
- Outreach
- Fundraising

Elijah J.

- Builder
- Skilled CNC Mill
- Assembly
- Wiring & Soldering
- Drive Team
- Technician

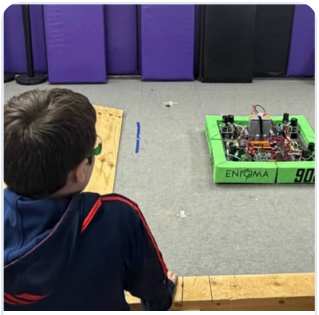


Elliott C.

- Skilled Java Coder
- Skilled Autonomous Pathing
- Skilled Vision Coder
- Outreach
- Fundraising

Gabriel G.

- Builder
- Fabricator
- Drive Team
- Wiring & Soldering
- Assembly
- Skilled CNC Mill
- Skilled Bandsaw
- Learning Java Code
- Outreach
- Fundraising



Isaiah J.

- Rookie Year
- Learning Java Code
- Assembly

James H.

- CAD Designer
- Builder
- Fabricator
- Drive Team
- Outreach
- Fundraising
- Skilled Bandsaw
- Assembly
- Rookie Year

Jody C.

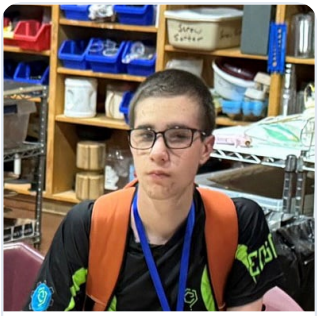
- Builder
- Assembly
- Team Spirit
- Portfolio / Notebook
- Outreach
- Fundraising
- Social Media
- Team Photographer
- Game Manual Expert
- Judging Awards
- Rookie Year

Ollie L.

- Builder
- Drive Team
- Technician
- Wiring & Soldering
- Electronics
- Human Player

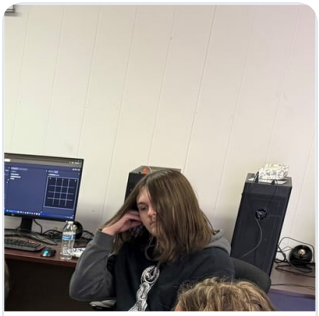
Rose G.

- Skilled Java Coder
- Electronics
- Skilled Vision Coder
- Skilled Autonomous Pathing



Sammy G.

- Skilled Java Coder
- Skilled Vision Coder
- Skilled Autonomous Pathing
- Outreach
- Fundraising
- Learning Java Code
- Team Spirit



Tristan S.

- Builder
- Shop Manager
- Assembly

Coaches and mentors

BLACK MOON SYSTEMS

F

Frank D.
Owner

FRC ENIGMA 9080

Russell M.
Coach #1

- Shop Admin
- Build & Fabrication
- Java Programming
- Wiring and Electronics
- Quality Control
- Machine Training
- Systems Mentor
- Design
- Game Strategy
- 3D Prints Mentor
- Robotics Control Systems
- Robotics Ambassador
- CAD Training
- Mechanical Engineering

Dan C.
Coach #2

- Team Administrator
- Safety Coordinator
- Quality Control
- Design
- Media Production
- Game Strategy
- Robotics Ambassador
- 3D Prints Mentor

Rey J.
Mentor

- Java Programming
- FRC WPI Programming
- Game Strategy
- Quality Control
- Robotics Control Systems
- Systems Mentor

Gray S.
Mentor

- FIRST Alumni
- Build & Fabrication
- Robot Driving
- Wiring and Electronics
- CAD Training
- Electrical Engineering
- Quality Control
- Game Strategy
- Design
- Mechanical Engineering
- Systems Mentor
- Robotics Ambassador
- 3D Prints Mentor
- Robotics Control Systems

Noah S.
Mentor

- FIRST Alumni
- Media Production
- Design
- Wiring and Electronics
- Quality Control
- Robotics Ambassador
- Game Strategy
- Robotics Control Systems
- Mechanical Engineering
- Build & Fabrication
- Systems Mentor

Peter F.
Mentor

- FIRST Alumni
- Game Strategy
- Build & Fabrication
- Wiring and Electronics
- Robotics Ambassador
- Quality Control
- CAD Training
- Robot Driving
- Mechanical Engineering
- Electrical Engineering
- Robotics Control Systems
- Design
- Systems Mentor

Felix M.
Mentor

- FIRST Alumni
- Mechanical Engineering
- Wiring and Electronics
- Build & Fabrication
- Quality Control
- Electrical Engineering
- Robotics Ambassador
- Game Strategy
- Robotics Control Systems
- Design
- Systems Mentor
- Machine Training

Renzo D.
Mentor

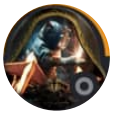
- Systems Mentor
- Electrical Engineering
- Build & Fabrication
- Wiring and Electronics
- Quality Control
- Robotics Ambassador
- Game Strategy
- Mechanical Engineering
- Design
- Robotics Control Systems

Isabel M.
Mentor

- Robot Driving
- Build & Fabrication
- Java Programming
- Quality Control
- Game Strategy
- Robotics Ambassador
- Robotics Control Systems
- Applied Mathematics
- Computer Science
- Systems Mentor
- Design
- FIRST Alumni
- FRC WPI Programming

Isaiah N.
Mentor

- Build & Fabrication
- Mechanical Engineering
- Aerospace Engineering
- Systems Mentor
- Quality Control
- Game Strategy
- Robotics Control Systems
- Wiring and Electronics



Mark L.
Mentor

- FIRST Alumni
- Build & Fabrication
- Mechanical Engineering
- Robotics Control Systems
- Game Strategy

Travis S.
Mentor

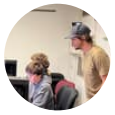
- Build & Fabrication
- Quality Control
- CAD Training
- Systems Mentor
- 3D Prints Mentor
- Game Strategy
- Mechanical Engineering
- Design

Aaron M.
Mentor

- Build & Fabrication
- Quality Control
- Wiring and Electronics
- CAD Training
- Mechanical Engineering
- Systems Mentor
- Game Strategy
- Design

Madelene C.
Mentor

- Team Administrator
- Safety Coordinator
- Build & Fabrication
- Wiring and Electronics
- Quality Control
- Machine Training
- FIRST Alumni
- Systems Mentor
- Design
- Media Production



Jacob L.
Mentor

- Build & Fabrication
- CAD Training
- Wiring and Electronics
- Quality Control
- Mechanical Engineering
- Systems Mentor
- Design
- Game Strategy

Dave C.
Mentor

- Java Programming
- Game Strategy
- Computer Science
- Quality Control
- Applied Mathematics
- FRC WPI Programming

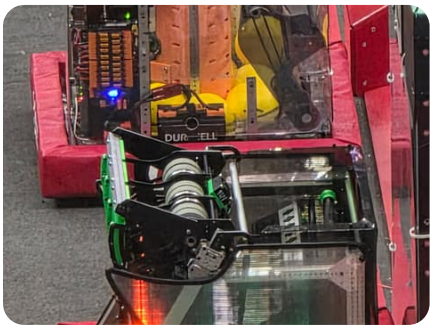
Matt W.
Mentor

- Systems Mentor
- Quality Control
- Applied Mathematics
- Mechanical Engineering
- Game Strategy
- Design
- CAD Training
- Robotics Control Systems

Brian H.
Mentor

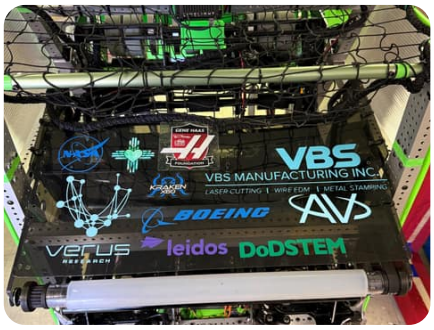
- Build & Fabrication
- Wiring and Electronics
- Quality Control
- Java Programming
- Mechanical Engineering
- Computer Science
- Game Strategy
- Systems Mentor
- FRC WPI Programming

Robot showcase

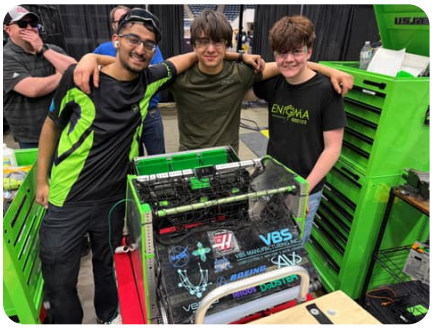


Beamer casting a halo on our alliance partner's turrett

Asa working hard on the robot during a pit stop



Intake shot with sponsors



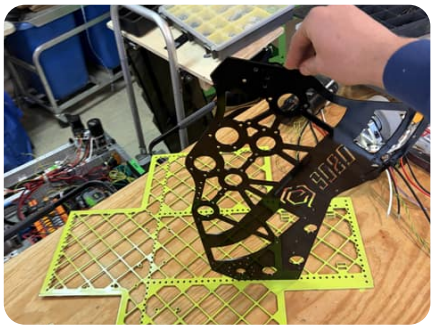
The three amigos (Anirudh, Asa, Luke) and Beamer of course

55 ball capacity big dumper architype front view

55 ball capacity big dumper architype side view

Beamer on the robot cart, ready to rumble

Beamer on the robot cart, vortex beam view



CNC'd parts, belly pan (green) and shooter tower side plate (black) with logo and team number

Year in review

Rebuilt · Robot: Beamer

Total hours invested: 3,800

OUR SEASON

ENIGMA 9080 — 2026 REBUILT Season Overview

The 2026 REBUILT season was a year of growth, transition, and legacy for ENIGMA 9080. As a young FRC team from Albuquerque, New Mexico, we entered the season with 15 students, including four seniors who were challenged to think beyond one robot and one competition year. Their focus was leadership, legacy, and what they wanted to leave behind for the students who will carry ENIGMA forward.

This season, our team built around the “big dumper” robot archetype, inspired by the WCP Big Dumper concept but modified heavily to fit our own resources, strategy, and design direction. One of the biggest mechanical changes was moving from the SDS MK4 swerve setup used on last year’s robot to a Thrifty Swerve drivetrain. That change pushed the team to learn new build practices, new packaging decisions, and new tuning challenges. The robot was built with an all-CTRE and Kraken motor ecosystem, giving students a more modern and consistent controls platform to develop around.

REBUILT was also our first season using a Limelight 4, which created new opportunities and new learning curves for our programming team. With three new coders stepping into larger roles, the season became as much about building people as building code. Students learned through real pressure: drivetrain setup, vision integration, autonomous development, troubleshooting, and match-to-match improvement. Every event gave the programming team more experience, more confidence, and a clearer picture of what ENIGMA’s controls future can become.

On the field, ENIGMA competed in two FIRST In Texas District events. At the FIT District Belton Event, held March 5–7, 2026, we ranked 16th with a 7-8-0 record. We were selected as the second pick of Alliance 7 and competed in the playoffs, advancing through the double elimination bracket before being eliminated in Round 3. Belton was a strong start to the season and showed that the robot concept could compete while giving the drive team valuable experience under pressure.

At the FIT District Amarillo Event, held April 2–4, 2026, ENIGMA ranked 26th with a 3-9-0 record and earned the Imagery Award in honor of Jack Kamen. While Amarillo brought its share of challenges, it also highlighted the identity and presentation of our team. The Imagery Award recognized the work students put into team branding, robot appearance, pit presence, and the way ENIGMA represents itself as a professional and creative robotics program.

Across the official 2026 season, ENIGMA finished 10-17-0 in official play and earned 33 district points. The numbers tell part of the story, but they do not capture the full value of the season. Behind every match were students learning how to recover from failures, communicate under stress, repair systems quickly, scout strategically, and support each other as a team.

Off the field, this was one of ENIGMA’s strongest seasons of infrastructure growth. We added a cargo trailer, giving the

team a major upgrade in how we transport the robot, tools, pit equipment, and supplies. We also built out a completely new pit setup with rolling toolboxes, creating a more organized, professional, and efficient workspace at events. These investments may not score points directly, but they are part of the foundation that will help ENIGMA operate at a higher level for years to come.

Our outreach also continued to grow. ENIGMA students supported the FLL Albuquerque Qualifier and the FLL State Championship by volunteering, demoing robots, and helping younger students experience the excitement of FIRST. These events gave our students a chance to serve the larger robotics community while showing younger teams what the next steps in FIRST can look like.

Mentorship remained a major part of our team culture. During the season, ENIGMA actively mentored three FTC teams, helping students with design, build, programming, strategy, and competition preparation. For our FRC students, mentoring FTC teams reinforced their own knowledge and helped them develop as leaders. For younger students, it created a bridge into future opportunities in robotics and STEM.

Recruiting was also an active focus this year. With four seniors preparing to graduate, the team understood that sustainability matters. ENIGMA is not just trying to build one successful robot; we are trying to build a program that lasts. Our seniors were encouraged to think about the systems, standards, culture, and lessons they wanted to leave behind. Their legacy is not only in the robot they helped build, but in the students they trained, the habits they modeled, and the expectations they helped set for the future.

The 2026 REBUILT season gave ENIGMA 9080 a clearer sense of who we are becoming. We grew technically through a new drivetrain, new motor ecosystem, new vision system, and new coders. We grew organizationally through a new trailer, new pit setup, and stronger event operations. We grew as leaders through outreach, FTC mentorship, and senior legacy work.

Most importantly, we continued to grow as a team. ENIGMA learned that rebuilding is not just the name of the game; it is part of the process. Every season asks us to rebuild something: a robot, a skill, a system, a mindset, or a team culture. In 2026, ENIGMA 9080 took meaningful steps forward, and the foundation built this year will shape the team for seasons to come.

GOALS

ENIGMA 9080 enters every season with the same highest competitive goal: to earn our way to the FIRST Championship. That goal carried even more weight during the REBUILT season because we had four seniors, including students who had been with us since our rookie debut during CRESCENDO. For them, this season was not only about competing; it was about leaving a legacy and helping position the next generation of ENIGMA students for future success.

As a district team, we knew that reaching Worlds first meant earning a spot at the FIRST In Texas District Championship. The students understood the district point system and paid close attention to what it would take to advance. They studied how teams earn points, what kind of robot would be valuable in eliminations, and which judged awards could help move the team closer to district championship qualification. Rather than only focusing on being the top robot at an event, they set a realistic and strategic goal: become a strong first-pick or excellent second-pick alliance partner.

That goal shaped the robot design and team strategy. ENIGMA focused on building a robot that could contribute consistently, fill an important role on an alliance, and be useful to higher-ranked teams during alliance selection. Students also reviewed award criteria and worked to strengthen areas such as imagery, team identity, outreach, technical presentation, and professionalism.

At our first qualifier, we learned one of the hardest lessons of the season: intakes were extremely vulnerable. Because many intake systems extended outside the frame perimeter, they became a common defensive target. Our first intake was hit hard, smashed, and repaired twice. After a third major impact, it could no longer withstand the damage. The students responded by completely redesigning the intake with engineered break points, turning a painful failure into a major design lesson.

The redesigned intake made it to our second qualifier, but our season was then plagued by breakdowns, especially wiring-related issues. Those problems ultimately contributed to a lower win count than the team had hoped for. While that was frustrating, it also gave the students valuable experience in reliability, serviceability, electrical standards, and the importance of building systems that can survive the intensity of competition.

Even though we did not reach every competitive goal this season, the team made meaningful progress toward the long-term goal. The seniors helped advance the odds for next year's team to reach the next level. They left behind lessons, better systems, stronger expectations, and a clearer path toward the pinnacle of FRC competition.

The team also set fundraising goals to support travel, equipment, registration, outreach, and long-term sustainability. That work is still in progress, but it remains an important part of building a program capable of competing beyond local events. For ENIGMA, the REBUILT season was a reminder that big goals are reached one foundation at a time.

Another important goal connected to this season is preparing for our local off-season REBUILT event, ABQ RoboRumble, in Albuquerque, New Mexico, on July 11. This event gives our graduating seniors one more opportunity to lead, mentor, and pass on what they have learned before moving into the next chapter of their lives. Their focus will be helping next season's FRC students get a head start through hands-on driving, pit work, strategy, scouting, repairs, and match experience. For ENIGMA, ABQ RoboRumble is more than an off-season competition; it is a bridge between seasons, a leadership handoff, and a chance for our seniors to strengthen the foundation for the students who will carry the team forward.

Lessons learned

The REBUILT season taught ENIGMA 9080 that success in FRC is built through much more than robot performance alone. Every match, repair, conversation, and event helped our students better understand what it takes to grow from a young team into a sustainable and competitive program.

One of the biggest technical lessons was the importance of durability and serviceability. Early in the season, our intake was hit hard and damaged multiple times because it extended outside the robot and became vulnerable to defense. After repairing it twice and losing it again after another major impact, the students learned that a mechanism must not only work in testing, but survive real competition. That experience led to a complete redesign with engineered break points and a better understanding of how to build systems that can fail safely, repair quickly, and return to the field with confidence.

The team also learned hard lessons about wiring, reliability, and organization. At our second qualifier, wiring issues and breakdowns hurt our ability to win matches consistently. While frustrating, those failures showed students that clean electrical work, labeling, strain relief, spare parts, pit readiness, and inspection habits are not small details. They are part of competitive performance. A robot that is easy to diagnose and repair gives the drive team, pit crew, and alliance partners more confidence.

Another major lesson was the value of being organized as a team. Adding a cargo trailer and a new rolling toolbox pit setup helped students see how much smoother an event can run when tools, parts, batteries, scouting materials, and pit responsibilities are clearly managed. Organization reduces stress, saves time, and helps the team respond better when something goes wrong.

ENIGMA also learned that alliance selection begins long before the selection ceremony. Students saw the importance of building relationships with other teams, being friendly in the pits, communicating clearly, and creating positive chemistry throughout the event. Teams remember who is helpful, prepared, honest, and easy to work with. Making friends at competition, talking strategy with other drive teams, sharing information, helping with repairs, and showing gracious professionalism all help build trust. Our students learned that being a great alliance partner includes more than robot capability; it includes attitude, reliability, teamwork, and how we treat others.

Through outreach, mentoring, and event volunteering, ENIGMA also learned that leadership grows when students serve. Whether mentoring FTC teams, helping at FLL events, supporting rookie teams, creating buttons and banners, or jumping in to help another team fix a robot, our students practiced using their skills for the benefit of the larger FIRST community.

The biggest lesson from the season was that every challenge can become part of the foundation for the next team. Our seniors helped turn setbacks into standards, mistakes into training, and hard-earned experience into a stronger path forward. REBUILT reminded ENIGMA that we are not only rebuilding robots each season; we are building culture, confidence, relationships, and a program that can continue to rise.

Skills and growth

The REBUILT season gave ENIGMA 9080 students a wide range of technical, organizational, and interpersonal skills that will carry into future seasons. Because the team took on new systems, new tools, new design challenges, and new leadership responsibilities, students had to grow quickly in many different areas.

Mechanically, students learned how to work with a new drivetrain platform as the team moved from SDS MK4 swerve modules to Thrifty Swerve. They gained experience with assembly, maintenance, tuning needs, packaging decisions, and how drivetrain choices affect the rest of the robot. Building a robot based on the big dumper archetype also required students to think through geometry, motion, weight placement, structure, and how each mechanism would survive real match play.

Students continued developing fabrication skills through the use of power tools, CNC work, 3D printing, cutting, drilling, fitting, and assembling parts. They learned that fabrication is not just making a part match a drawing; it also requires understanding material choice, tolerances, hole alignment, belt spacing, compression, clearance, and how parts behave under stress. Students performed calculations for belt sizes, fitment, compression, and mechanical tolerances, then saw how those numbers translated into real-world performance on the robot.

One of the most important engineering skills learned was iteration. The original intake was damaged multiple times during competition, forcing the team to redesign it with engineered break points. That process taught students how to identify weaknesses, accept that the first version is rarely the final version, and improve a design based on evidence from the field. They learned that failure is not the end of the process; it is information that helps create a better solution.

Students also expanded their CAD skills through OnShape, learning how to design parts, review assemblies, communicate ideas visually, and prepare components for fabrication. Through OnShape CAD workshops and internal design work, students grew in their ability to move from a concept to a manufactured part. These skills helped connect design, build, and repair work into one continuous engineering process.

On the electrical and controls side, students learned the importance of clean wiring, labeling, strain relief, power distribution, sensor integration, and troubleshooting. With an all-CTRE and Kraken ecosystem, a Limelight 4, and new coders stepping into larger roles, the team gained experience with modern FRC control systems, vision, programming structure, and diagnosing problems under competition pressure. Wiring issues were a weakness this season, but they became a major learning opportunity and helped the team understand the need for stronger standards and inspection habits.

Students also learned preparedness and event operations. The new cargo trailer and rolling toolbox pit setup helped teach inventory control, packing systems, tool organization, spare parts planning, battery management, pit flow, and the value of checklists. The team learned that being prepared before an event can make the difference between calm problem-solving and unnecessary stress.

Competition taught students how to repair under pressure. They learned how to divide responsibilities, communicate quickly, diagnose failures, make temporary fixes, and get the robot back on the field. These moments built confidence, resilience, and trust between mechanical, electrical, programming, drive team, and pit crew members.

Just as important, students developed social and professional skills. They learned how to ask for help, how to offer help, how to talk with judges, scouts, alliance partners, volunteers, inspectors, and other teams. They practiced pit etiquette, competition etiquette, gracious professionalism, and how to represent ENIGMA with respect and confidence. They learned that being organized, friendly, helpful, and easy to work with can matter during alliance selection just as much as robot capability.

The season also helped students recognize weaknesses honestly. Rather than hiding problems, they learned to identify them, talk about them, and build plans to improve. Whether the weakness was wiring reliability, intake durability, organization, communication, or preparedness, each challenge became part of the team's growth.

Overall, REBUILT was a season of hands-on learning. ENIGMA students gained skills in design, fabrication, programming, electrical systems, safety, organization, communication, leadership, and teamwork. They learned how to build, break, repair, redesign, ask questions, help others, and keep improving. These skills are part of the legacy left by this year's team and will give future ENIGMA students a stronger foundation to build on.

Competitions

FIT District Belton Qualifier Event

Mar 5, 2026 · Belton TX Civic Arena

Alliance 7 Pick Round 3 Finish

FIT District Belton Event, held March 5–7, 2026, we ranked 16th with a 7-8-0 record. We were selected as the second pick of Alliance 7 and competed in the playoffs, advancing through the double elimination bracket before being eliminated in Round 3. Belton was a strong start to the season and showed that the robot concept could compete while giving the drive team valuable experience under pressure.

FIT District Amarillo Qualifier Event

Apr 2, 2026 · Amarillo Civic Arena

Imagery Award in honor of Jack Kamen

FIT District Amarillo Event, held April 2–4, 2026, ENIGMA ranked 26th with a 3-9-0 record and earned the Imagery Award in honor of Jack Kamen. While Amarillo brought its share of challenges, it also highlighted the identity and presentation of our team. The Imagery Award recognized the work students put into team branding, robot appearance, pit presence, and the way ENIGMA represents itself as a professional and creative robotics program.

ABQ RoboRumble Off-Season Event

Jul 11, 2026 · St. Pius High School - Albuquerque, NM

TBD

ABQ RoboRumble is a local off-season FRC event in Albuquerque, New Mexico, built around the REBUILT season. The event gives New Mexico and regional teams another opportunity to compete, practice, train new students, and strengthen the local robotics community outside the official season. For ENIGMA 9080, ABQ RoboRumble is also a leadership and legacy opportunity, allowing our seniors, alumni, mentors, and experienced students to support the next generation through robot driving, pit work, strategy, repairs, volunteering, and event support.

Outreach

Total people reached: 140

Outreach is a major part of ENIGMA 9080's identity. We believe a strong FRC team should not only build competitive robots, but also build pathways for younger students, support the larger FIRST community, and help other teams succeed whenever possible.

During the REBUILT season, ENIGMA supported both the FLL Albuquerque Qualifier and the FLL State Championship. Our students and mentors volunteered in several roles, including referees and table resetters, while also helping create an exciting event environment for younger teams. One of our sponsors, Ambitions, provided a large digital display for the scoreboard, helping make the event feel more professional and engaging for students, families, and volunteers. ENIGMA also brought an FRC robot demo to give FLL students a glimpse of what is possible as they continue through the FIRST progression of programs.

Mentorship continued to be one of our strongest outreach efforts. ENIGMA worked with and supported multiple FTC teams, including ENIGMA 16265, Mechanical Error 33778, SPQR 27413, and Gallup Gearheads 31652. Our students and mentors helped with design ideas, building, programming, strategy, competition preparation, and general troubleshooting. We are also working to help stand up a new rookie FRC team, Hawikku Robotics, Team 11465. Supporting new and developing teams is one of the ways ENIGMA invests in the long-term growth of robotics in New Mexico.

Our team also contributes to the local robotics community through event support and creative service. For the ABQ RoboRumble off-season event, ENIGMA is providing alumni volunteers and team-designed Winning Alliance banners. This gives our students a way to use their skills beyond the robot while helping create a memorable experience for teams competing at the event.

Branding and team spirit are also part of our outreach culture. ENIGMA has a dedicated graphic design team that creates unique ENIGMA buttons for each event, as well as buttons for FTC teams we support. These designs help students take pride in their team identity and give them a fun way to connect with other teams at competitions.

At events, ENIGMA also sets up a relief aid table with small goodies, fidgets, snacks, stickers, and helpful resources. The goal is simple: make competitions a little easier, more welcoming, and more encouraging for students and volunteers. We want people who walk by our pit or team area to know that ENIGMA is there to compete, but also there to care.

That same attitude carries into the pit and competition floor. ENIGMA is always glad to provide extra parts when other teams ask, and we are quick to jump in when teams need help building, repairing, or troubleshooting at competition. Whether it is a mechanical fix, a wiring issue, a spare component, or another set of hands, our students learn that gracious professionalism means helping the event succeed, not just our own robot.

ENIGMA also hosts OnShape CAD workshops through Discord for FRC and FTC robot design. These workshops give students from multiple teams access to design support, shared knowledge, and a place to learn modern CAD practices. Through volunteering, mentoring, event support, design resources, and direct team assistance, ENIGMA continues working to strengthen the FIRST community in New Mexico and beyond.

FLL Albuquerque UNEARTHED Qualifier

Nov 15, 2025 · LADE Charter School · 120 reached

The FLL Albuquerque UNEARTHED Qualifier, hosted through NMFLL at LADE Charter School, brought together young robotics teams for a day of innovation, teamwork, judging, and robot matches built around the UNEARTHED season theme. ENIGMA 9080 supported the event by volunteering in key roles, helping reset tables, assisting with event flow, and demonstrating our FRC robot so FLL students could see the next step in the FIRST progression. The qualifier gave our students a chance to encourage younger teams, support New Mexico's growing robotics community, and help create a positive competition experience for students, coaches, families, and volunteers.

FLL Festival UNEARTHED - NM State Championship

Feb 14, 2026 · Menaul High School

The FLL Festival UNEARTHED — NM State Championship at Menaul High School brought together FLL teams from across New Mexico to celebrate their season, present their innovation projects, and compete in robot game matches centered on the UNEARTHED theme. ENIGMA 9080 supported the event by volunteering, helping with event operations, and demonstrating our FRC robot to inspire younger students as they continue through the FIRST pathway. The championship was a great opportunity for our team to serve the New Mexico robotics community, encourage FLL students, and help create an exciting, welcoming environment for teams, coaches, families, and volunteers.

Mentoring FTC Gallup Gearheads 31652

Oct 18, 2025 · Boys and Girls Club - Gallup NM · 20 reached

ENIGMA 9080 mentored the Gallup Gearheads, FTC Team 31652, through the Boys & Girls Club in Gallup, New Mexico. To help the team get started and practice more effectively, we provided them with a homemade FTC field and purchased a half game set for the DECODE season so they could set up and test with real field elements. ENIGMA mentors and students also helped with robot build support, Blocks programming guidance, troubleshooting, and vendor links for suggested parts that could improve their robot's performance and reliability. This mentorship helped give the Gallup Gearheads access to equipment, technical guidance, and resources that strengthened their season and supported the growth of FTC in their community.

STEM Night at Isotopes Baseball Stadium

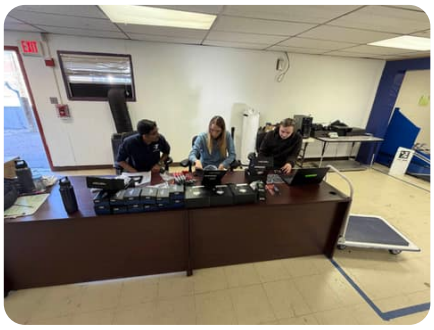
Apr 17, 2026 · Isotopes Baseball Stadium

ENIGMA 9080 participated in STEM Night at the Albuquerque Isotopes ball stadium, joining other New Mexico FIRST Teams and STEM organizations to promote robotics, engineering, and FIRST programs to the community. Our team demonstrated both FRC and FTC robots, giving families, students, and baseball fans a chance to see competitive robotics up close and ask questions about how the robots are designed, built, programmed, and driven. The event also gave ENIGMA an opportunity to promote FIRST Inspires, recruit new students, and build stronger connections within our own team. By sharing robotics in a fun public setting, students practiced communication, outreach, and leadership while helping introduce more families to the opportunities available through FIRST.

Season highlights

Outreach table in Amarillo

Prototyping shooters


Swerve assembly begins

Painting CNC'd structural parts

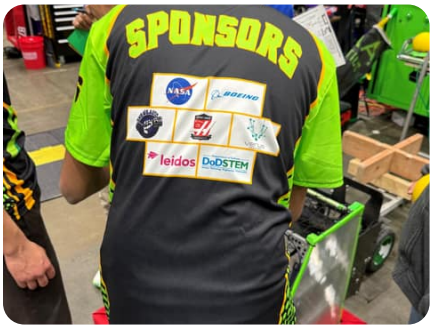
Swerve assembly at scale

Enigma's on the field

Buccees for lunch

Buccees team photo after Amarillo Qualifier

More than robotics

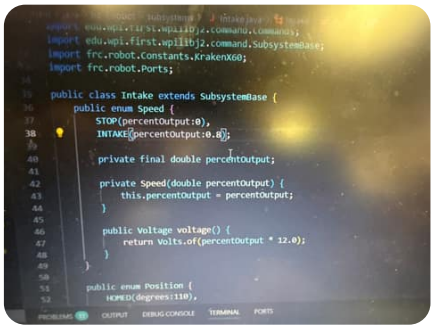


Sponsors on team uniform

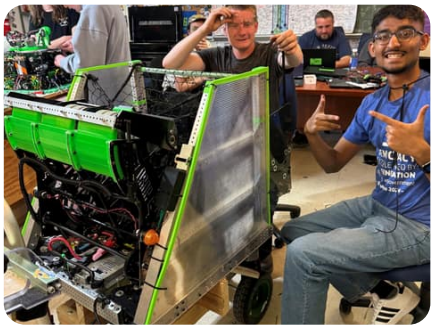
Hard at work inthe pits

Pit shot of the robot

Unloading the pit from the trailer at Amarillo

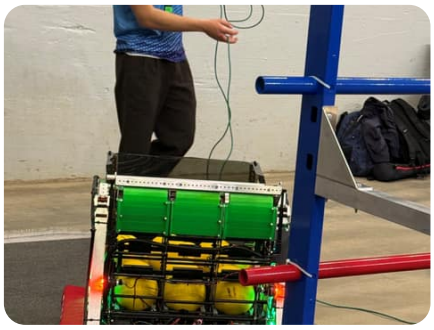


Robot code



Builders build

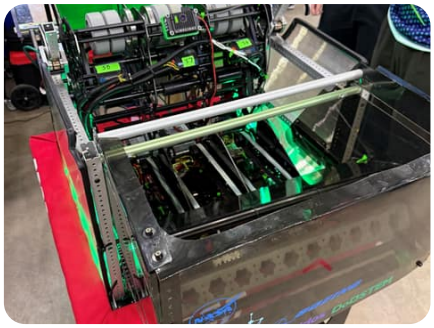
Fixing breakdowns



Practice field, can we hang

Practice field conversation

Practice field shot



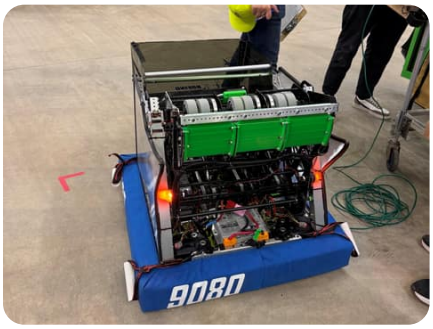
Intake out

Getting Beamer ready for action

Break down, getting help

Another breakdown

Belton arena field setup



Early Beamer sighting

Beamer in blue

Intense shop convo