



# Putting STEM FIRST

**Our Mission:**

To be an inspiration and catalyst for opportunities through science, technology, engineering, & mathematics.

**Our Vision:**

To ensure opportunities for all youth in science, technology, engineering, & math.

Since establishment in 2006, a cornerstone of the Torbotics' experience has been to strengthen community awareness and interest in STEM through providing creative and innovative outreach programs for all youth, expanding on our region's images of STEM, of women and minorities in engineering and of the importance of connecting and giving back to community professionals.



We strive to be a driving force for STEM and robotics throughout Tangipahoa parish, which is 50% rural, with 22% of all youth pursuing careers in STEM fields. In contrast, Torbotics has a 100% graduation rate with 94% moving on to STEM-related fields. Our four-year engineering program at Hammond High Magnet School (HHMS) represents 71% of the school districts in our parish. As youth represented in our FIRST Lego League (4<sup>th</sup>–8<sup>th</sup> grade) and FIRST Lego League Junior (K–4<sup>th</sup> grade) outreach teams mature and move on to high school, over 80% come to HHMS to become a part of Torbotics and our engineering program. With over 200,000 youth and families served over the past 12 years, we strive to build communities, impact lives, and change the world.



**FIRST Core Values:**

- **Discovery** – We explore new skills & ideas.
- **Innovation** – We use creativity and persistence to solve problems.
- **Impact** – We apply what we learn to improve our world.
- **Inclusion** – We respect each other and embrace our differences.
- **Teamwork** – We are stronger when we work together.



# Community Outreach & Collaborations

Torbotics is committed to creating possibilities for underserved communities, constructing engaging programs, and challenging perceptions of STEM in our area. We do this through providing various outreach events and serving as guest speakers when asked. For example, during the past year we have facilitated outreach events for Greenville Park Leadership Academy, Woodland Park Elementary, Westside Montessori, Hammond Eastside, the Tangi STEM Coalition, the Special Olympics, various public libraries in three parishes, the Girl Scouts of Greater New Orleans, STEM NOLA, the Louisiana STEM Council, S.M.A.R.T. Kids, SeaPearch, a Family LEGO Night, regional STEM Festivals, a FTC Kick-off & qualifier & two FLL season Jump Starts.

Our campaign, “#putSTEMFIRST” captures our belief that exposure to quality STEM is important to ensuring a successful future. Put STEM FIRST is our effort to help all youth, especially those in our most rural and impoverished areas put an attainable face on STEM and FIRST robotics. This includes making personal connections with STEM Professionals.



We currently mentor:

- 1 FRC team
- 5 FTC teams
- 8 FLL teams
- 14 FLL Jr teams.

and serve as a support to many others

## Technical STEM Collaborators

- **Intralox** – multiple engineers serve as mentors during FRC build season.
- **SLU Engineering Department**
- **NASA Stennis** – National Astro Camp Site & FLL mentorship support
- **NASA Michoud** – FLL mentorship support
- **DOTD** – Recent robotics collaboration

## FRC Torbotics #2080 2018 Season Sponsors

- SPAWAR
- Lockheed Martin
- Intralox
- Modern Woodman Financial
- RDF
- Intuitive Surgical
- Shell – Laurie Guidroz
- Raising Cane's
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- Pierce Aviation
- Dan Wrinkles Plumbing
- HYPE Robotics
- H.Rocker Electric
- Explore & Learn

