

**1. Engineering Inspiration - recruit students to engineering, community outreach (non-stem), science and engineering education, FIRST mission (Their pillars - inclusivity, discovery, innovation, impact, teamwork, and fun.)**

**a. Partnerships**

- i. Valero
- ii. Franks Manufacturing: Sponsor
- iii. Ryobi: sponsor
- iv. San Antonio Powder Coating: Sponsor
- v. Raytheon: Mentor

**b. FLL Starting**

- i. Mentoring
- ii. Teaching teachers
- iii. Northside partnership est. 2014

**c. Demos: not only STEM events**

- i. NISD Tech Expo
- ii. Code Jam 2023
  - Girls in STEM, Java workshop
- iii. All the elementary and middle schools
  - Scobee Elementary "Ring of Fire" Demo, Steubing Elementary
- iv. Scobee Planetarium
- v. SAMSAT
- vi. Bibliotech
- vii. iFly - SWIFT Robotics
- viii. STEM Camps
- ix. Training
- x. Mentoring

**d. Hosting FTC events: open to the public for interest**

- i. FTC Kickoff
- ii. BOBr (Black Out Battle Royale)
  - Off-season FTC Competitions as fundraisers and impact STEM in the community around us.
- iii. League Champs
- iv. League Events

**e. Workshops: Open to the public, not just FIRST - AND TO ALL FIRST TEAMS**

- i. Mentor Workshops x2
- ii. Remote workshops

**f. Passage of knowledge within our team**

- i. Teaching while doing
- ii. There is no restriction on what new members can do
- iii. Veteran-Rookie member adoption program?
- iv. Weekly team training curriculum

**g. Open Shop Policy**

**h. Help other teams at comp**

- i. Teams reach out
- ii. Social Media

**i. SACOT: spreading STEM to school**

- i. Founding team
- ii. Hosted 2018 virtual node

- iii. Presented at the 2019 & 2020 summit
  - iv. 3 bills advocated or passed
- 2. Gracious Professionalism - demonstration for FIRST Core Values such as continuous Gracious Professionalism and working together both on and off the playing field**
  - a. No Cussing, yelling, etc.
    - i. Respect and kindness to one another PLEASE
  - b. Helping other teams **(LOTS)**
  - c. Orange in Every Pit
  - d. Teamwork
  - e. Open Shop
- 3. Sustainability - developed the framework for a comprehensive business plan to scope, manage, and achieve team objectives**
  - a. Sustainability Plan
  - b. Non-Profit 501(C)(3): Brandeis Bronc Botz Booster Club
  - c. FTC to FRC Pipeline
  - d. Team knowledge of general sustainability
- 4. Imagery - attractiveness in engineering and outstanding visual aesthetic integration of machine and team appearance**
  - a. Powder-coating Sponsorship
  - b. Uniform: black shirts, orange shirts, cargos, closed-toed shoes, workshirts
    - i. All safety rules followed
- 5. Autonomous- demonstrated consistent, reliable, high-performance robot operation during autonomously managed actions; based on the robot's ability to sense its surroundings, position itself or onboard mechanisms appropriately, and execute tasks (Mihir or Samuel)**
- 6. Innovation in Control- innovative control system or application of control components – electrical, mechanical, or software – to provide unique machine functions**
  - a. YAGSL+
- 7. Excellence In Engineering - elegant and advantageous machine feature**
- 8. Creativity - creativity in design, use of components, or strategy of play**
- 9. Industrial Design - form and function in an efficiently designed machine that effectively addressed the game challenge (Louis or Eshwar)**
- 10. Quality- machine robustness in concept and fabrication**
  - a. Tolerance & hand machining
  - b. CNC
  - c. Risk mitigation
  - d. Fabrication Sponsors (Franks Manufacturing, San Antonio Powder Coating)