

**POLY RABBOTICS: TEAM #7042**

**Long Beach Polytechnic High  
School**

**2021-2022 Diversity, Equity, and  
Inclusion Report and Plan**

**COMPREHENSIVE PLAN TO FOSTER GROWTH, INNOVATION,  
SUSTAINABILITY, AND EXCITEMENT IN STEM**



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## ***1. Team Introduction and Overview***

Long Beach Poly Rabbotics is a FIRST FRC (Team #7042) established in 2017, representing Long Beach Polytechnic High School. The team was established by a founding class of seven seniors, dedicated towards expanding knowledge in STEM, involving in outreach, and developing long-term communication and marketing skills.

We continue to serve in order to provide authentic engagement in science, technology, engineering, and mathematics. Through the experience of building a functional robot to compete in First Robotics Competitions, the thrill of discovery and the fun of sports will combine to incite true passion for science and technology as well as instilling in its participants the values espoused by FRC: cooperative competition and gracious professionalism. [ goal is to provide a dynamic working environment for students interested in STEM fields. Students learn not only STEM-related SKILLS, but also gain experience in graphic design, CAD, software applications such as Microsoft Excel and Photoshop familiarization as well as business promotion, fundraising and community outreach.

Today, the team has grown to over 35 students, with four mentors and one Lead Advisor, expanding the scale of the team, and involving itself in logistics (business) and technical sides of the robotics experience. We are working in a newly renovated workshop, with a vast set of equipment, machinery, and tools, as well as multiple sets of laptops and desktop computers.

We are dedicated towards filling a major void in the FRC community, of expanding STEM to lower income and/or less exposed areas in our local members. These initiatives' origins begin with our diverse class of students and the current outreach programs in place; we look to build on this instrumental progress.

### **1.1 Mission/Vision Statements**

#### **Vision Statement:**

To prepare the next generation of STEM leaders and innovators by building a coalition of students, mentors, and community partners working together to further STEM education and initiatives in the local Long Beach and FRC communities. This is fulfilled through successful team operations; a student-led and vision-oriented culture; and a variety of workshops, demonstrations, and competitions.

#### **Mission Statement:**

To build a sustainable, well-functioning team whose members enthusiastically explore the fields of engineering, science, technology, and mathematics, while inspiring others to follow suit through profound, committed outreach/community service connections.

## 2. Current Diversity 2020-2021

Since 2017, there has been a consistent emphasis on diversity, equity, and inclusion in areas such as gender and ethnicity—especially considering being established in one of the most diverse and populace high schools in America. The team is proud to have a 50:50 male-female ratio, with more than 35% of members from minority groups, namely the Latinx and African-American communities. We have also continued to make deliberate efforts to outreach to the minority groups in our campus population.

We will always stand by the promise that diversity is a strength, and that diversity, equity, and inclusion are critical to our team’s collective success, our community’s need, and future generations’ opportunities.

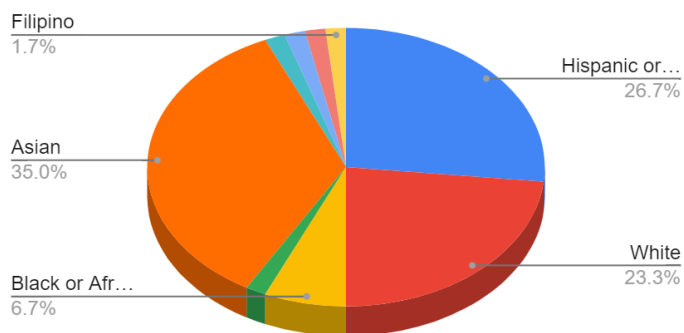
Our team (as of the 2020-2021 season) consists of 60 members representing a wide variety of ethnicities, genders, and grade levels.

### 2.1 Racial Diversity

Team 7042 has the privilege of being based in Long Beach, CA—one of the most diverse cities in the world. Our school is home to a nearly 70% minority population. Our team has used this diversity to expand STEM to individuals and communities where the field has often been underrepresented.

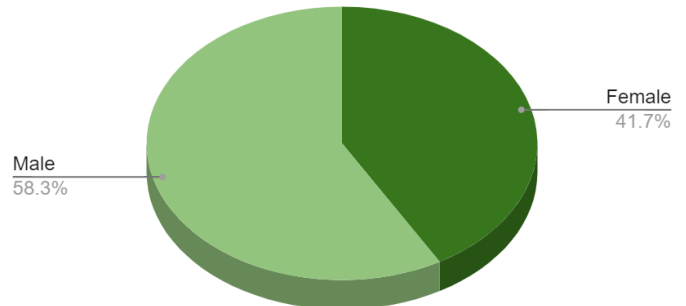
Recognizing potential stigmas and barriers surrounding minority participation in STEM, Poly Rabbotics aspires to provide an inclusive environment for individuals of all backgrounds, ethnicities, and cultures.

This year, 35.0% of the team is Asian, 26.7% is Hispanic/Latino, 23.3% is White, 6.7% is Black or African-American, and 1.7% is Filipino.



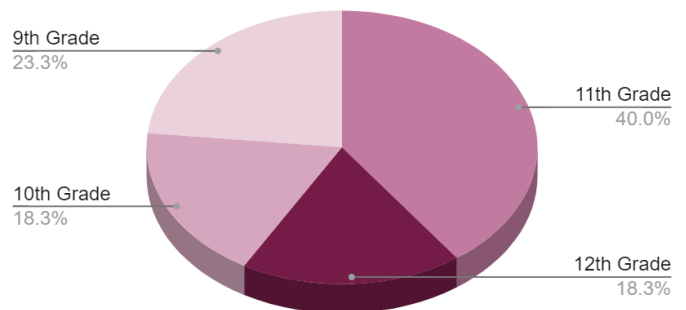
## 2.2 Gender Diversity

Our team promotes female participation in STEM by empowering young women to join our team and participate in FIRST. We value students who strive to become engaged in STEM fields. This year, 41.7% of our team members are female and 58.3% are male.



## 2.3 Grade Diversity

In order to create a sustainable, equitable, and balanced program, Team 7042 promotes equal grade participation through our comprehensive recruitment, retention, and training processes. To raise interest in our program, we outreach to over 1,000 incoming freshmen at via email and social media, visit 20+ classes to talk about our team, and host robot demonstrations. This year, 23.3% of the team members are freshmen, 18.3% are sophomores, 40.0% are juniors, 18.3% are seniors.



### 3. Leadership Diversity 2020-2021

Poly Rabbotics believes that developing a diverse, equitable, and inclusive community centered around providing opportunity begins with team leadership. Over the years, our student leaders have come to represent a broad range of backgrounds and ideas, in turn inspiring and diversifying the next generation of STEM learners, innovators, and leaders.

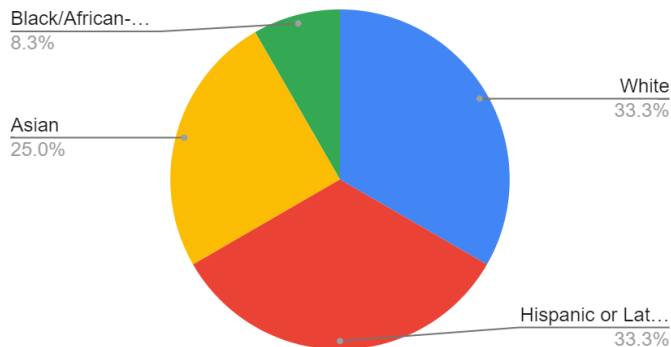
Our leads represent our membership and DEI is a critical criteria in selection of leadership throughout the academic year.

#### 3.1 Racial Diversity

Team 7042 has a highly diverse demographic spread encompassing our leadership. This year, 25.0% of the leadership is Asian, 33.3% is Hispanic/Latino, 33.3% is White, and 8.3% is Black or African-American.

We are committed to increasing representation of minority groups that reflect the diversity of Long Beach Poly HS.

Leadership Racial Diversity

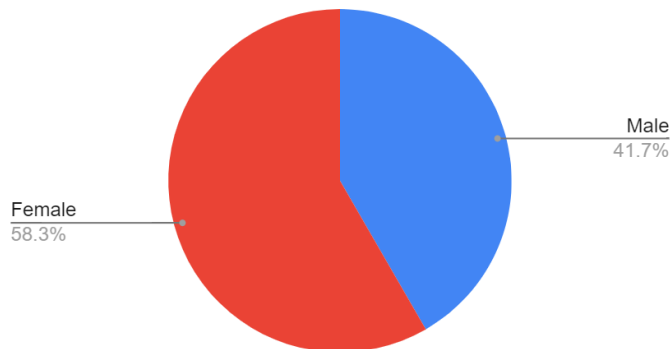


#### 3.2 Gender Diversity

Team 7042 has a near 60:40 female-male leadership ratio, indicative of our team's emphasis on increasing female representation within the area of robotics and the larger field of STEM.

This data represents both our Core Leadership (Co-Captains, Engineering/Operations Directors) and Full Leadership (Mechanical, Electrical, Programming, CAD, Marketing, Media, Financials, and Art & Merch.

Leadership Gender Diversity

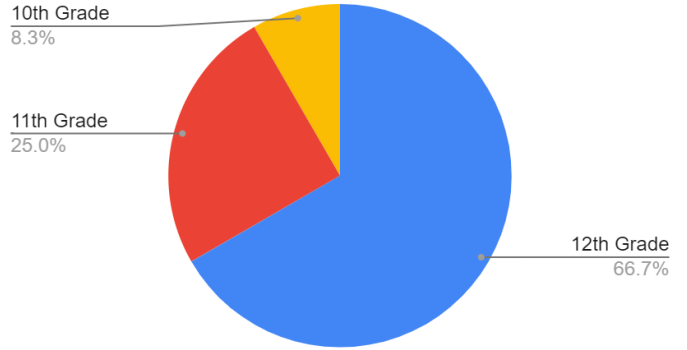


### 3.3 Grade Diversity

Team 7042 leadership spans three various grades: 10th, 11th, and 12th, indicative of our approach to value skills, ideas, and passion rather than years of experience.

In the 2020-2021 season, 66.7% of our leads were seniors, 25.0% were juniors, and 8.3% were sophomores.

Leadership Grade Diversity



## ***4. Diversity, Equity, and Inclusion (DEI) Plan***

Team 7042 is committed to expanding our diversity, equity, and inclusion and building upon our current diversity and progress as an organization and as a FRC team.

Our diversity transcends demographic interests as well. As a team, we place a strong focus on promoting critical ideas, perspectives, backgrounds, and experiences by developing and supporting a diverse set of team divisions on both the engineering and operational teams, outreach initiatives, and opportunities for members and our community.

The following are key diversity priorities for the 2021-22 year:

- To develop more targeted outreach within Long Beach Polytechnic High School to reach more diverse groups of students across school and curriculum pathways including PACE, CIC, Beach, and others.
- To develop a FLL/VEX Mentorship Program with a mission of providing resources, support, and guidance for middle and elementary school students and their teams.
- To host outreach events (i.e. robot demonstrations, workshops/camps, etc.) in more underserved and underrepresented communities within the City of LB.
- To collect more data on team diversity including data regarding student career interests, alumni diversity, and more to create more comprehensive DEI plans.

We stand by the fact that diversity is a strength for our team and for STEM fields. We strongly support creating a more diverse, equitable, and inclusive future in STEM.



## ***10. Contact Information***

**Website:** <https://lbpolyrabbotics.org>

Team Email: [polyrabbotics@gmail.com](mailto:polyrabbotics@gmail.com)

Facebook: @polyrabbotics

Twitter: @polyrabbotics

Instagram: @polyrabbotics

### **Main Contacts:**

Lead Mentor: Eric Gever

Email: [ericgever@gmail.com](mailto:ericgever@gmail.com)

### **Team Meeting Information:**

Location: LB Poly Rabbotics Room (900 Building-Robotics)

Dates: MW-3:00-6:00 PM (2021); MWThS-4:00-7:00 PM

### **Sponsorship Information:**

Checks should be made payable to: Long Beach Poly Rabbotics

Donations may be tax deductible; please contact the team for more information.

### **Mailing Address:**

1600 Atlantic Avenue, Long Beach, CA 90813

### **Chief Contributor:**

Hamid Torabzadeh, Co-Captain. Email: [hamidtorabzadeh@outlook.com](mailto:hamidtorabzadeh@outlook.com)