



# Sponsorship Proposal

## Hyperion Bots #18011

2024/2025 South African FTC Alliance Record Holders

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# Contents

## TOPICS OF THE PROPOSAL



1 ABOUT US

---

2. ABOUT FTC

---

3. OUR TEAM

---

4. WHAT WE NEED SPONSORED

---

5. EVENT SCHEDULE

---

6. SPONSORSHIP BENEFITS

---

7. OUR OUTREACH

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# About Us

The Hyperion Bots (FTC Team 18011) from Parklands College is a rookie team making its debut at the FIRST Tech Challenge (FTC) Internationals. While this marks our school's first entry into the FTC division, Parklands College has a strong history of international robotics success, with several of our World Robot Olympiad (WRO) teams representing South Africa globally for over a decade and achieving outstanding results.

This year, 255 teams from around the world will compete in the FTC Internationals, making it a prestigious and highly competitive event. The competition will also feature FIRST LEGO League (FLL) and FIRST Robotics Competition (FRC) teams, bringing together thousands of young innovators in a global celebration of STEM excellence. The Hyperion Bots are honored to represent our school and country, showcasing innovation, teamwork, and engineering expertise on this world stage.

## Why Sponsor the Hyperion Bots?

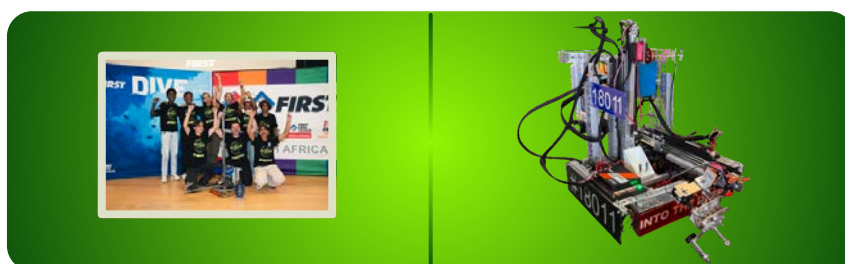
It is an opportunity to invest in the future of STEM, technology, and innovation.

### As a sponsor, your organisation will:

- ✔ Gain international exposure at a high-profile STEM event.
- ✔ Align with a global movement fostering future engineers and tech leaders.
- ✔ Increase brand exposure through our outreach, media, and competition presence.
- ✔ Make a tangible impact by empowering young innovators and advancing STEM education.

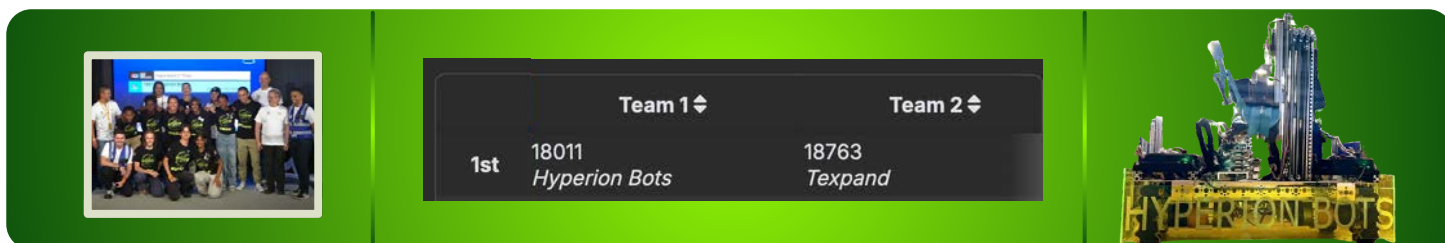
Join us in shaping the next generation of technology leaders—one robot at a time! 🚀

# Awards



**Regionals**

**Design Award**



**Nationals**

**Top Alliance SA Record**

**Inspire Award  
(2nd Place)**



## About FIRST and FTC

### What is FIRST?

FIRST (For Inspiration and Recognition of Science and Technology) is a global nonprofit organisation dedicated to inspiring young minds through hands-on robotics competition's. By engaging students in STEM (Science, Technology, Engineering, and Mathematics), FIRST fosters problem-solving, teamwork, and leadership skills. Supported by industry leaders such as NASA, Qualcomm, and Boeing, FIRST has empowered millions of students worldwide to pursue careers in technology and engineering.

#### **FIRST offers competitions across multiple age groups:**

- FIRST LEGO League (FLL): Designed for elementary and middle school students, FLL introduces young learners to real-world engineering challenges using LEGO-based robotics.
- FIRST Tech Challenge (FTC): A high school-level competition where students design, build, and program robots to compete in dynamic, strategy-based challenges.
- FIRST Robotics Competition (FRC): The most advanced division, FRC challenges teams to build industrial-scale robots, preparing students for careers in engineering and technology.

#### **What is FIRST Tech Challenge (FTC)?**

FTC is a global robotics competition for high school students, where teams design, build, and program robots to complete complex challenges both autonomously and through driver control. It provides hands-on experience in mechanical design, coding, and strategic thinking—skills essential for the future workforce.

FTC promotes innovation, collaboration, and perseverance, aligning with industry needs for STEM talent development. Additionally, sponsors benefit through:

- Brand exposure at regional, national, and international events.
- Community engagement by supporting youth education and skill-building.
- Workforce development by inspiring and preparing the next generation of engineers and innovators.

A key value of FTC is Gracious Professionalism®, which encourages competitors to uphold integrity, respect, and teamwork. This ensures students not only gain technical expertise but also develop strong leadership and ethical qualities—an investment in the future of STEM and innovation.

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# Meet Our Team



**Yemira Mamdoo**  
Captain

**Personal Outreach**

Presidents Award (Bronze Level) (Duke of Edinburgh International Award)  
Co-hosted a STEM event with FIRST team (8902) in the US.  
Scout Patrol Leader (Level: Traveler) at local scout group – assisting in developing future well rounded leaders. Participated in a beach cleanup for SPHER3 in Paternoster. Volunteered at Fallen Angels caring for abandoned pets. Organised sandwich drives in the local area.  
Served as Lighting Lead for Sound Engineering school team.  
Acted as First Aider for school events.  
Peer tutor at school.



**Connor Niske**  
Co-Captain

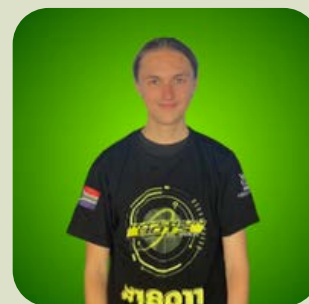
**Personal Outreach**

PC Interact Vice-President  
Leading community service projects  
Blouberg Rotarian  
Contributing to local charitable efforts.  
President's Award Participant  
Developing leadership through service, fitness, and skill-building activities.



**Tristan Daries**  
Head of Engineering

Enthusiastic Learner – Eager to participate in outreach and contribute to team projects.  
Focused on Skill Development – Dedicated to improving technical abilities and teamwork.  
Ready to Take Initiative – Looking forward to engaging in future opportunities for growth and collaboration.



**Joshua Jackson Smith**  
Engineering Department

**Personal Outreach**

Active Interact Member – Engaged in community service initiatives and leadership activities.  
Certified in First Aid – Provided assistance and support in various outreach activities.  
Helped Other Teams with Robotics – Troubleshot and improved autonomous programs, fixed coding issues, and optimised robot movement.  
Guided Teams in Problem-Solving

# Meet Our Team



**Ashley Machine**

Programmer

**Personal Outreach**

Helped other teams troubleshoot and improve autonomous programs.

Identified and fixed coding issues affecting robot performance.

Guided teams through solutions and skill development. Assisted with optimising robot pathing and movement accuracy.



**Shakti Manga**

Programmer

**Personal Outreach**

Active Interact Member – Participated in community service projects

Helped Other Teams with Robotics – Assisted with troubleshooting, coding improvements, and robot optimization.

Guided Teams in Problem-Solving – Explained technical issues, supported debugging, and helped develop programming skills.



**Mkhusele Mngese**

Engineering Department

Eager to Contribute – Looking forward to engaging in outreach and community service opportunities.

Passionate About Robotics – Dedicated to learning, problem-solving, and collaborating with others.

Committed to Growth – Continuously developing technical and teamwork skills to support future initiatives.



**Liya De Allende**

Head of Marketing

**Personal Outreach**

Certified in First Aid – Trained to provide medical assistance and support in various situations.

Member of the Diversity Committee – Promoted inclusivity and collaboration within the community.

Helped Other Teams with Robotics – Assisted with troubleshooting, coding improvements, and robot optimization.

Guided Teams in Problem-Solving – Explained technical issues, supported debugging, and helped develop programming skills.

# Meet Our Team



**Elihle Hadebe**  
Marketing Department

**Active Participant** – Always ready to contribute and support team efforts.  
**Focused on Learning** – Committed to enhancing skills and collaborating with peers.  
**Future Leader** – Eager to take on new challenges and make a positive impact in upcoming opportunities.



**Elizabeth Campey**  
Outreach Member

**Personal Outreach**  
Facilitated 2 micro:bit workshops at the CT Science Centre.  
Co-presented at PyCon ZA on micro:bit, robots, and Astro Pi Mission Space Lab.  
Mentored a coding club at Reddam House ASB for 1.5 years.  
Guided an Astro Pi Mission Zero team at Parklands College.  
Demonstrated Picogo robot at UWC Roving Robots event.  
Showcased Picogo and CuteBot Pro at PyCon ZA.  
Built Mars Rover for sapient.rocks outreach.

# Coaches / Mentors



**Richard Knaggs**



**Mathew Mizrachi**



**Justine de Wet**



**Collin Mamdoo**

# What do we need sponsored?

## Budget Estimate Per Person

| Discription                       | Estimated Cost |
|-----------------------------------|----------------|
| Return Flights                    | R22,258        |
| Accommodation                     | R14,818        |
| Transport                         | R1,642         |
| Meals and Beverages               | R9,000         |
| Travel Insurance                  | R1,000         |
| Industry Visits & Discovery Trips | R2,000         |
| Contingency Fund                  | R900           |
| Visa's                            | R4,000         |
| Additional Equipment Baggage      | R572           |
| <b>Total Per Person</b>           | <b>R56,190</b> |



### Event Highlights

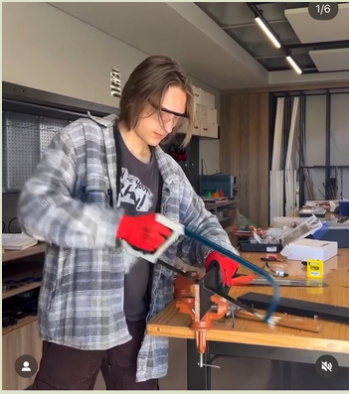
Hands-on STEM – Design, build, and program real robots.

Teamwork – Develop communication and leadership skills.

Exciting Challenges – Compete, strategise, and adapt.

Opportunities – Network, gain mentors, and access scholarships





## TOTAL Team Cost (Estimate)

| Description                       | Estimated Cost  |
|-----------------------------------|-----------------|
| Return Flights                    | R378,386        |
| Accommodation                     | R207,452        |
| Transport                         | R22,988         |
| Meals and Beverages               | R126,000        |
| Travel Insurance                  | R14,000         |
| Industry Visits & Discovery Trips | R28,000         |
| Contingency Fund                  | R12,600         |
| Visa's                            | R56,000         |
| Additional Equipment Baggage      | R8,000          |
| <b>TOTAL TEAM COST (14 pax)</b>   | <b>R853,426</b> |

This sponsorship has the potential to open doors, providing opportunities for growth, learning, and a brighter future for all involved

10 Team Members

2 Coaches

2 Mentors

**ONE BIG DREAM**

# Event Schedule

11 April - 22 April



- 11** Depart from Cape Town
- 12** Arrive in Houston
- 13** Practice Scrimmages
- 15** FIRST World Championships
- 20** Industry Visits & Discovery Trips
- 21** Depart from Houston
- 22** Return to Cape Town



Hyperion Bots Sponsorship Proposal

# Sponsorship Benefits



## Global Exposure & Brand Visibility

With 255 international teams competing in FTC and hundreds more in FLL and FRC, sponsor branding will reach thousands of students, educators, and industry professionals worldwide.

Our team will proudly showcase sponsor logos on team shirts, robot branding, and marketing materials, ensuring high visibility at the event and across digital platforms. Additionally, we are launching local awareness campaigns, including radio and TV interviews, where sponsors will be acknowledged, further amplifying their brand presence in both local and international markets.

This sponsorship provides a unique opportunity to align your brand with cutting-edge innovation, STEM education, and the future of technology leadership.

## Investing in the Future of STEM Talent and Innovation

FTC participants often go on to pursue careers in AI, engineering, and software development, making this sponsorship an early investment in the next generation of STEM professionals. Sponsors will have the opportunity to inspire and engage with young talent who may become future employees and industry pioneers.

As part of the sponsorship package, we offer exclusive demonstrations at corporate offices, allowing employees to experience firsthand the innovation, teamwork, and technical expertise behind the competition. These interactive sessions generate excitement and pride, reinforcing the company's commitment to cutting-edge technology, education, and global innovation while giving employees a direct connection to an elite, high-energy STEM event.

## Commitment to STEM Education

Sponsoring an FTC team directly demonstrates a commitment to hands-on, applied learning experiences and the promotion of STEM education globally. Your sponsorship will help provide young minds with access to cutting-edge robotics education, ensuring that students gain real-world engineering and programming experience.

As part of the sponsorship, the Hyperion Bots team can assist your company in launching a new FTC team, providing ongoing mentorship and guidance throughout the process. This collaboration not only strengthens your brand's involvement in STEM education but also helps cultivate future innovators within your organization. By nurturing the next generation of engineers and problem-solvers, your company will be contributing to the growth of STEM while inspiring employees and creating long-term value through mentorship.

## Diversity and Inclusion in Tech

FIRST and FTC prioritise diversity, equity, and inclusion in STEM—values that align with many organisations' commitment to creating opportunities in tech for underrepresented groups. By sponsoring us, you contribute to fostering a more inclusive and diverse future in STEM, ensuring that young innovators from all backgrounds have equal access to opportunities in technology and engineering.

Through your sponsorship, you can play an active role in shaping a tech ecosystem that is more representative and inclusive, creating opportunities for diverse talent to thrive. By supporting initiatives that bridge the gender, race, and socioeconomic gaps in STEM, your brand will not only benefit from positive brand association but also showcase your commitment to empowering the next generation of innovators from all walks of life. This partnership provides lasting impact, helping to build a more equitable tech industry for future generations.

# OUTREACH



## What We've Accomplished:

As a sponsor of the Hyperion Bots, your partnership will support a team that is deeply committed to promoting FIRST and STEM in our community and beyond. Our team actively participates in a variety of outreach initiatives to inspire the next generation of innovators, ensuring high visibility for sponsors and aligning with **your brand's dedication to supporting diversity and inclusion in STEM.**

### Our Outreach Efforts Include:

- Colouring book collaboration with Brebotics, promoting FIRST and STEM.
- Hosting two scrimmages during the season, bringing local teams together for collaborative learning.
- Showcasing our robot during a school assembly and delivering an inspiring talk about the impact of FIRST.
- Running daily social media advertisements, keeping our sponsors consistently in the spotlight.
- Co-hosting a FIRST Inspires seminar, focusing on promoting women in STEM.
- Delivering a live robot demo and talk to the 1st Table View Scouts, fostering early interest in robotics.
- Creating and sharing a video for the #FIRSTLikeaGirl movement on Instagram, raising awareness and celebrating diversity in STEM.
- Designing and 3D printing FIRST earrings, with 50% of profits donated to Galactic Einsteins.
- Hosting the Western Cape Regional Competition at our school, where we provided AV support and ensured a smooth, professional event.
- Hosting CodeNinjas, an FLL team from Canada, for the Africa Open Invitation in Cape Town, showcasing our global collaboration and leadership in robotics.
- Making our field available to teams without one for practice, fostering a collaborative environment for all teams.

### Future Outreach Initiatives

Looking ahead, the Hyperion Bots will expand our outreach efforts with continued support from our sponsors:

- Coding classes at HOPE Cape Town for Grade R-12 students, including special needs learners.
- Collaboration with schools in Delft, including Delft Primary, to reach more students.
- Saturday coding class at the Science Centre and support for 100+ clubs, with opportunities to engage with local communities.
- Two spots available each season for students from under-resourced schools to experience a full FTC season with our team. We aim to raise grant funding to help them start their own teams with their own equipment.

These efforts not only showcase your brand at the heart of cutting-edge robotics and STEM education but also foster a deep connection with young, innovative minds, encouraging them to pursue careers in engineering, coding, and beyond.

### Teams we've reached out to for advice/discussion



80+

People we've  
learned from

4

Main projects  
+Businesses

50+

Hours  
dedicated

500+

People  
impacted

# Meet Dougie 3.0



**We look forward to the possibility of  
partnering with you.**

**Let's Ignite the Future of STEM Together!**