Simon Fraser University

SFU ROBOT SOCCER

SPONSORSHIP PACKAGE 2025/2026

www.sfurobotsoccer.com

www.linkedin.com/company/sfurs/

@sfurobotsoccer

TABLE OF CONTENTS

WHO WE ARE

THE TEAM BEHIND SFU ROBOT SOCCER

SFU Robot Soccer is a student-run design team committed to building autonomous soccer-playing robots. Our organization is structured into a Technical team and a Business Team, working in tandem to push the boundaries of robotics and artificial intelligence. By Integrating hands-on experience in AI, computer vision and mechatronics, we are developing cutting-edge robotic systems while cultivating technical excellence and strategic leadership.

OUR MISSION

WHAT DRIVES OUR INNOVATION AND COMPETITION

MISSION STATEMENT

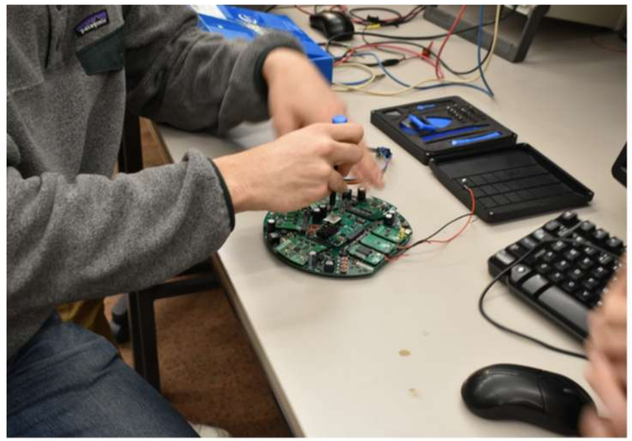
We strive to advance autonomous robotics through competitive innovation while empowering students with hands-on experience in engineering, programming, and teamwork.

GOALS

Our goal is to compete in RoboCup 2026 while laying the foundation for future engineers at SFU. By fostering innovation, collaboration, and technical excellence, we aim to create a lasting impact on the university’s robotics community.

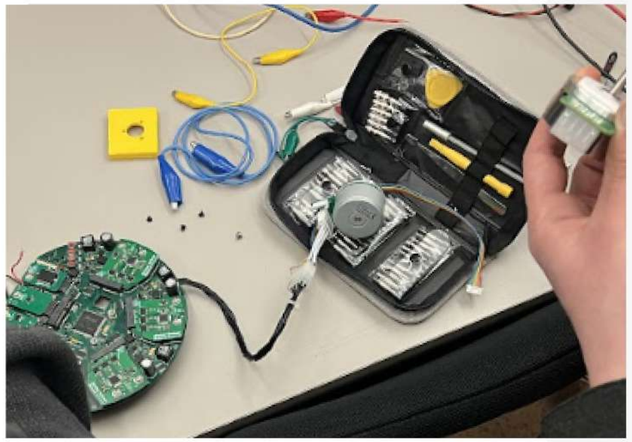
OUR SUBTEAMS

WHAT WE DO



Mechanics

The mechanics team designs and fabricates the robot frames and moving parts. They focus on optimizing weight, stability, and durability. Their role also involves assembling, testing, and maintaining the physical structures of the robots.

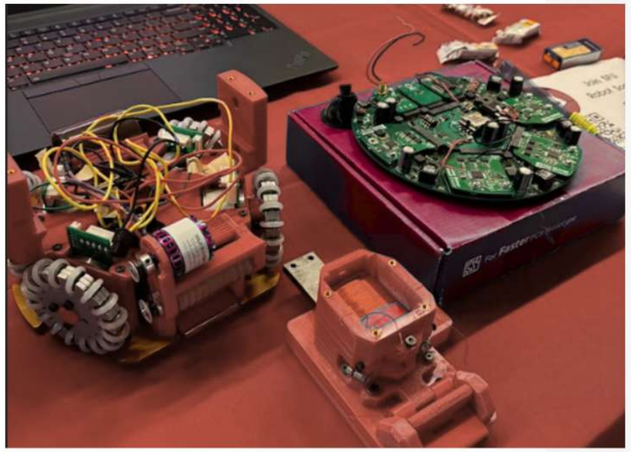


Software

The software team develops the AI and vision systems that power the robots' decision-making. They implement reinforcement learning models, program collaboration strategies, and refine the software architecture for consistent performance.

Electronics

The electrical team designs and develops the circuit boards and power systems for the robots. They integrate sensors, such as IMUs, and ensure efficient power distribution. Their responsibilities also include troubleshooting and repairing hardware issues.



Firmware

The firmware team develops the robots onboard control systems so it can physically execute software commands. They develop low level code that interfaces directly with the physical hardware so the robot can interpret complex instructions

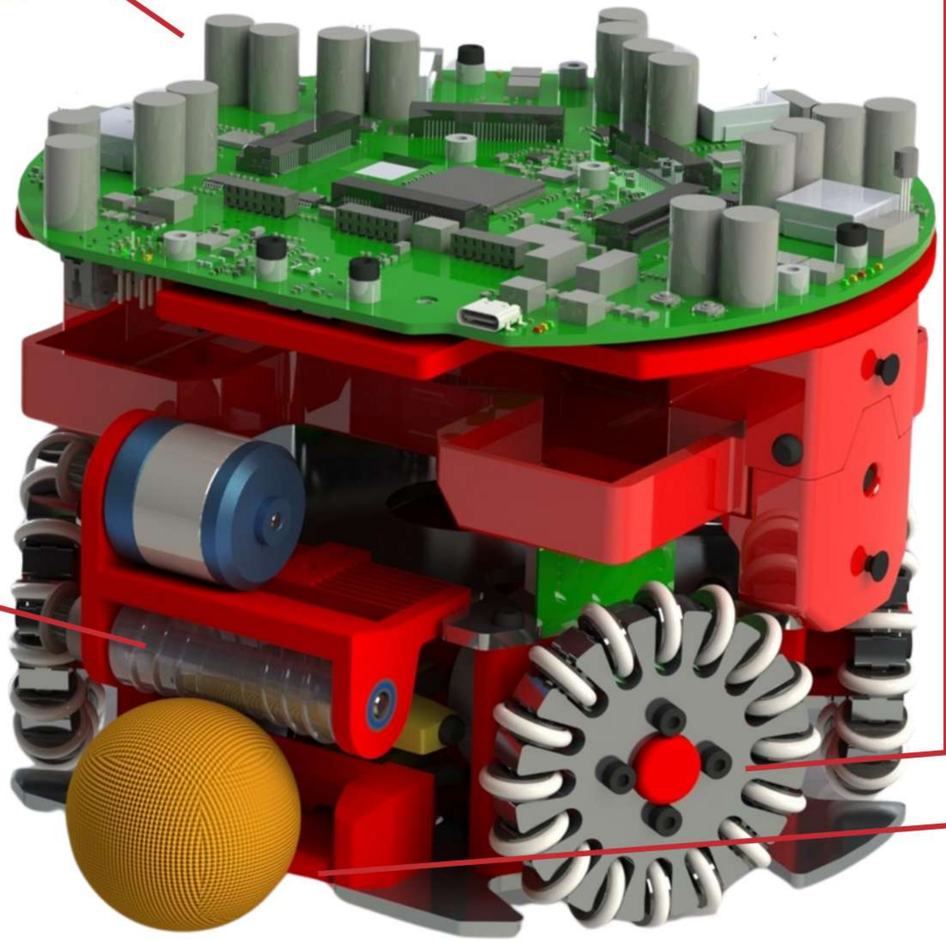
OUR ROBOT

Custom Designed Motherboard

Orchestrates all electrical and communication functions. Built with modularity in mind and interfaces with several specialized daughter cards that handle key subsystems.

Dribbler

This allows the robot to move with the ball and reposition easily without losing possession. Ensures effective damping, reducing ball bounce and improving handling during rapid direction changes.



Omni-Directional Wheels

Featuring four custom omni-directional wheels, our robot can move smoothly and precisely in any direction without needing to rotate. Ensures fast and responsive movement across the field, giving the robot superior control.

Kicker and Chipper

Equipped with two powerful solenoid-based mechanisms. The kicker delivers strong, fast ground passes and shots by propelling the ball with a burst of energy. The chipper, mounted at a slight angle, allows for lofted passes or shots that can travel over defenders.

THE ROADMAP

KEY MILESTONES TOWARD ROBOCUP 2026

Summer

- Complete robot fleet assembled and tested
- Full-sized field setup fully operational
- Firmware optimized for maximum stability
- Basic simulated gameplay successfully executed.
- Friendly match against local team to assess performace

Fall

- Ongoing testing and performance enhancements
- Gameplay strategy and system reliability fine-tuned

Winter-Spring

- Robots fully integrated and operational
- Software optimized for rapid, adaptive decision-making
- RoboCup 2026 qualification process initiated.

RoboCup 2026

- Competing in Incheon, South Korea.
- Debuting SFU Robot Soccer in the SSL league

*Timeline is tentative and subject to change.

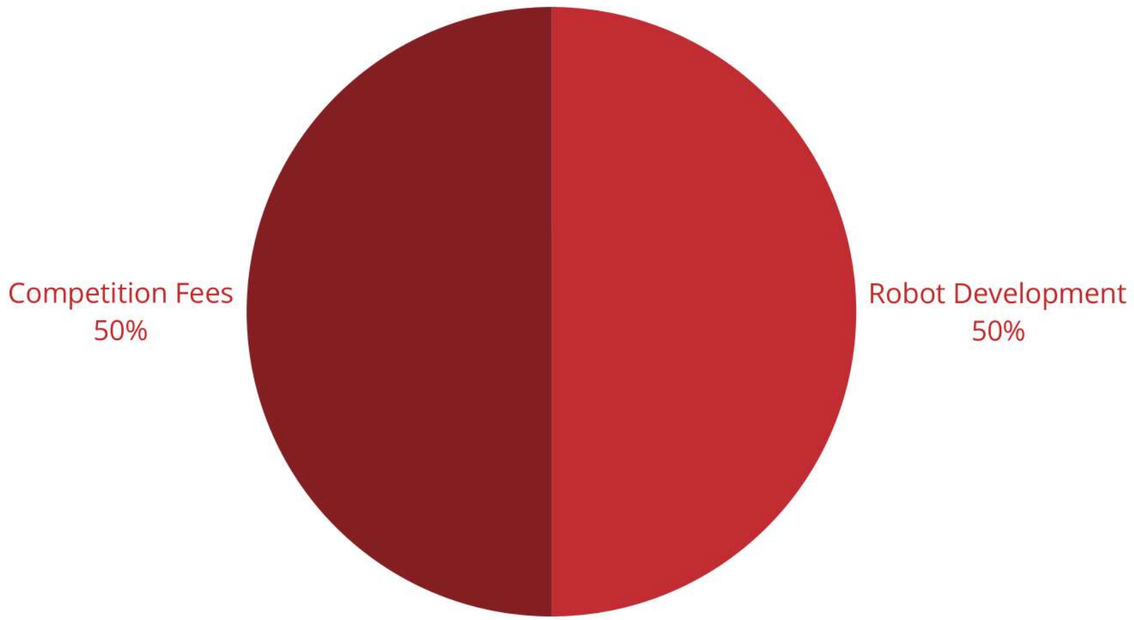
COMMUNITY IMPACTS

Our Learning Groups initiative supports students interested in joining the technical team who may not yet have the necessary skills. This free program, open to all and run by experienced members of our club, provides foundational training to help participants gain the confidence and knowledge needed to contribute to our projects.

This fall, we are running a Learning Group for all four technical sub-teams. Over the course of the semester, students engage in guided workshops and hands-on activities designed to build key technical skills. By the end of the semester, participants are encouraged to apply to the technical team and continue their journey in robotics.

These interactive events promote engagement, creativity, and problem-solving—fostering excitement for STEM fields and encouraging future innovation.

FUNDING OUR FUTURE



ROBOT DEVELOPMENT

50%

The majority of our budget is dedicated to designing, building, and testing our autonomous robots.

COMPETITION FEES

50%

This includes registration fees and other costs related to participating in national and international robot soccer competitions.

SPONSORSHIP BENEFITS

	SUPPORTING SPONSOR $500	COMMUNITY SPONSOR $1,000	VISIONARY SPONSOR $3,000	INNOVATION PARTNER $5,000
Acknowledged and thanked at events	✓	✓	✓	✓
Logo on website and jersey	✓	✓	✓	✓
Acknowledgements on social media		✓	✓	✓
Company logo on promotion posters			✓	✓
Company acknowledgement in newsletters				✓
Inclusion in outreach events (Guest-speaking opportunities)				✓
Distribution of company advertisement to team				✓

*Benefits and Timelines will be evaluated on a case by case basis.

CONTACT US:

Sachkeerat Sandhu
Vice President of Corporate Relations
P: 778-979-4747
E: sfurs@sfu.ca

Thank you for taking the time to consider SFU Robot Soccer's objectives and goals for 2025-26.

If you have any questions or are interested in partnering with SFURS, please do reach out to us.

www.sfurobotsoccer.com

www.linkedin.com/company/sfurs/

@sfurobotsoccer