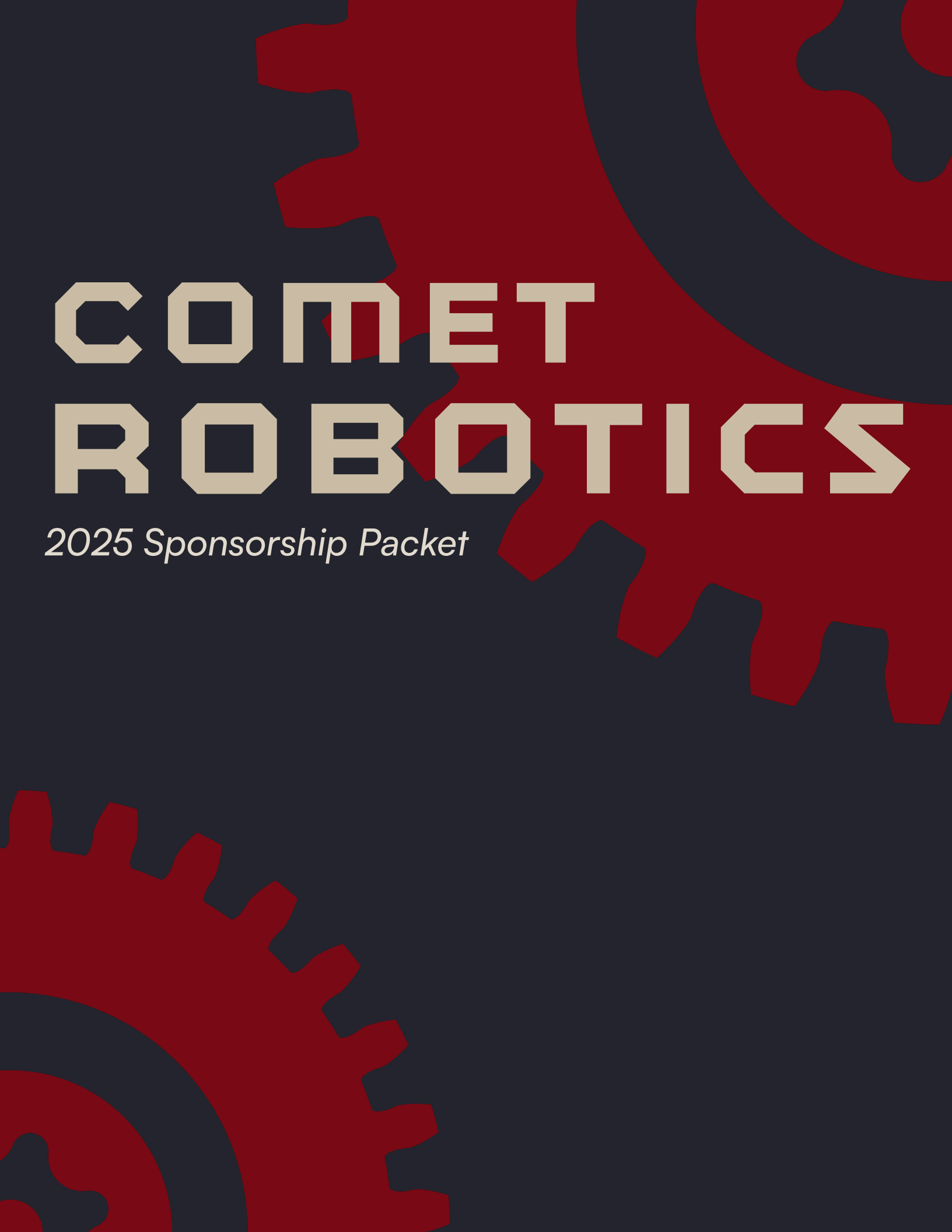




COMET ROBOTICS

2025 Sponsorship Packet

Table of Contents

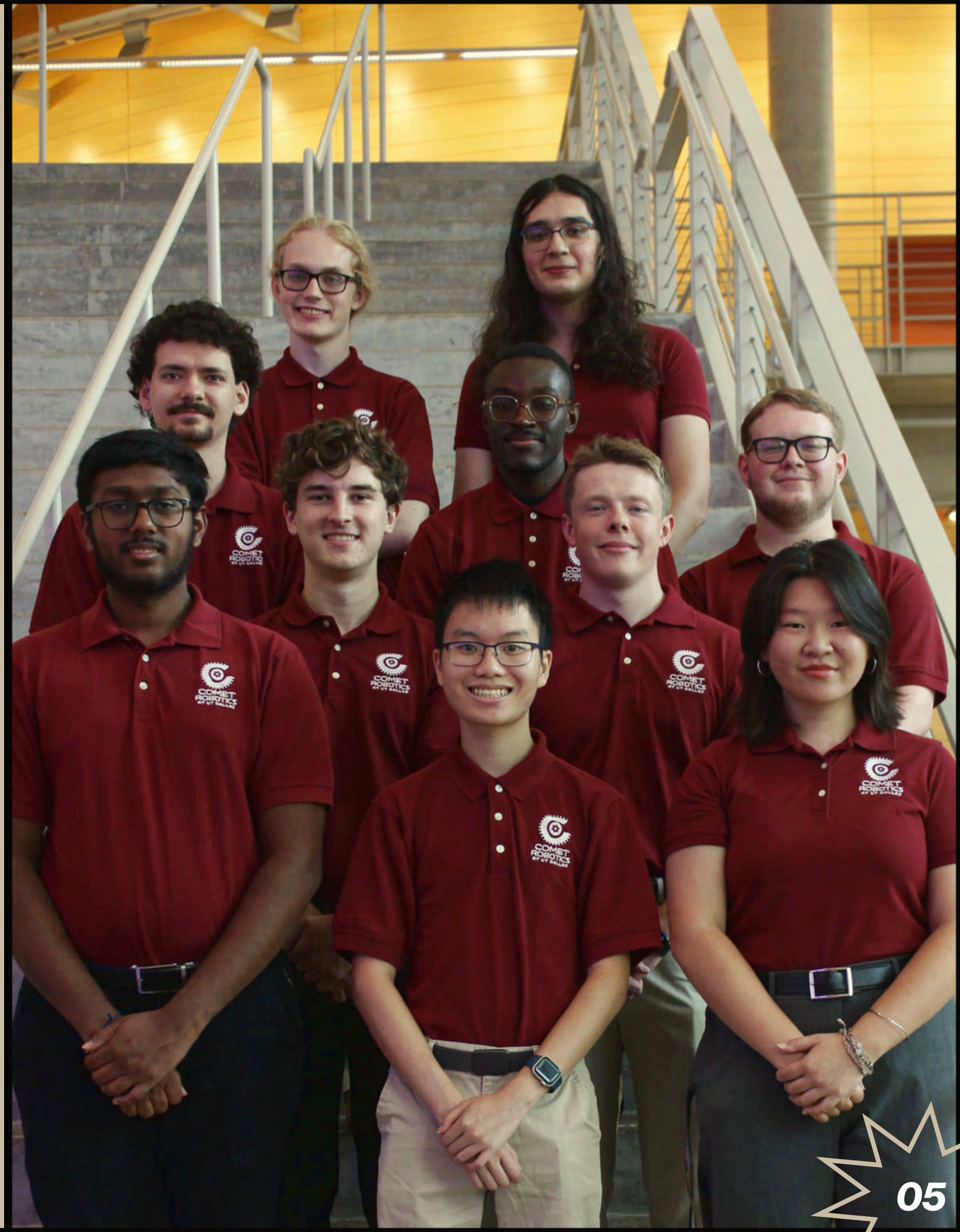
02	Table of Contents
04	Who we are
06	Our Projects
08	Combat: General
10	Combat: Sumo Bots
12	Chess Bots
14	VEX U
16	Solis Rover Project
18	Becoming a Sponsor
22	Sponsorship Tiers
22	How to Donate
23	Contact Info

IDENTITY

Who we are

Comet Robotics, a University of Texas at Dallas student **501(c)(3)** organization, promotes robotics through outreach, projects, and workshops on campus and in the surrounding area. We compete in **combat robotics competitions**, and programs like **VEX U** and **University Rover Challenge** with colleges and universities across the globe.

Our membership is **open to all students** regardless of major or prior experience in robotics. We provide students with the **opportunity** to collaborate and compete with like-minded individuals to gain experience and refine their knowledge of designing, building, and programming robots. We aim to sustain an engaged student body hoping to build upon their coursework and gain **real-world experience** by developing skills in project management, leadership, teamwork, and much more.





OUR PROJECTS



NEIL B.
COMBAT OFFICER

Combat: General

PROJECTS

Combat is our oldest project, going back to **2004**. We build and fight robots designed for combat in different weight classes. Each year, we attend several **competitions** and have even **hosted our own** (Comet Clash) with 48 robots from various organizations and universities in attendance.

We participated in the **National Havoc Robot League (NHRL)**, the **largest combat robotics competition** in the nation, which hosts competitors from across the globe.

Combat instills the **engineering process** as members identify problems, ideate solutions, and iterate on their bots. To support this, we run **skill workshops** that apply learning to real situations and drive continual improvement with each event.

Plastic Ants

1 pound combat robots
used to teach CAD,
soldering, 3D printing, and
electronics

CometRx

Designs precise PCBs to
control our combat
robots; embedded
programming

Full Combat

Larger combat robots
Designing robot parts for
machining, laser cutting,
and assembly

Combat: Sumo Bots

PROJECTS

Sumo Bots builds **fast, autonomous robots** that push each other out of a ring. Autonomous robots rely on **infrared sensors and phototransistors** for object and edge detection during **competitions**.

We are a more **advanced** form of combat, intended for Comet Robotics members who are familiar with making plastic ants for general combat competitions.

Multidisciplinary

3D printing chassis,
designing PCBs, writing
embedded software

Weight Classes

Focuses on 500g and 3kg
classes for competition



EVAN W.

FORMER SUMO BOTS PROJECT MANAGER

SUMO BOTS

011



DYLAN B. // GABE
CHESS BOTS PROJECT MANAGER // TEAM LEAD

Chess Bots

FULLY AUTONOMOUS ROBOTS THAT
PLAY CHESS

ChessBots is a revived project that is redesigning **32 life sized autonomous chess piece robots** meant to play on a life-sized board at UTD's very own **chess plaza**. Once finished, the fully autonomous robots mimic the moves made by players or by real time moves made by AI on our website.

Each bot houses an **ESP32 with firmware coded in C++** for wireless communication with the server over **WiFi** to process and enact the received commands. Onboard **encoders and light sensors** allow the bot to record its movement in real time. This allows the bot to navigate tiles and perform complex movements. On our website the server is coded in **TypeScript**, and serves a **Vite & React** frontend to connect clients.

On completion, Chess Bots will run outreach events at many locations and demonstrate UTD's **pride and enthusiasm** for chess and robotics.

School Spirit

UTD is famous for its chess team, and this is our way of showing appreciation.

High-Level Software

Our project uses a blend of C++, TypeScript, and Vite+React to achieve its many facets

VEX U

PROJECTS

COMPETES IN VEX U ROBOTICS
COMPETITION AGAINST OTHER
UNIVERSITIES LOCALLY AND
GLOBALLY

COMET VEX-U is a national competitive team. We design, build, program, and tele-operate robots for head-to-head matches against universities **worldwide**. Each year brings a new challenge for us to face.

Our team has qualified for **VEX U Worlds**, the highest level of competition, proving our capability against top-tier universities while improving on iterative design processes over time.

We rapidly develop, refine, and build our designs in a matter of months.

In addition to pure competition, we have conducted and presented valuable **research on holonomic drive** at the Undergraduate Research Scholar Awards (URSA) at UT Dallas.

Software Team

Writes code for the complex movements and functions of the robot, including autonomous actions.

Hardware Team

Conceptualizes solutions to VEX games and designs a robot capable of performing various tasks.



JESSE H. // KEVAL S.

VEX U PROJECT MANAGER // SOFTWARE LEAD

C
M
X

C

015



LUKE F.
SRP TEAM LEAD

Solis Rover Project



COMPETES IN UNIVERSITY ROVER CHALLENGE (URC)

Solis Rover Project (SRP) is a team dedicated to designing, building, and competing a **Mars exploration rover**.

SRP has a **40-member team** with students from engineering, arts & technology, and business backgrounds.

Embedded Team

Develops control systems and autonomous functions using ROS

Science Team

Implements onboard research tools for terrain and sample analysis

Logistics Team

Manages fundraising, sponsorships, and outreach efforts

Mechanical Team

Designs and fabricates the rover’s structure and mobility system

Collectively, we compete in the University Rover Challenge which hosts universities from **around the world** to test engineering skills.

As a new project, we are making amazing strides and receiving **glowing reviews from URC judges** to continue in our efforts.





BECOMING A SPONSOR

SPONSORSHIP TIERS	020		Maroon \$6000+	Ruby \$4000 - \$5999	Ivory \$2000 - \$3999	Slate Gray \$500 - \$1999
		Company logo displayed on website and events	★	★	★	★
		Handwritten card from the team	★	★	★	★
		Receive book of member resumes	★	★	★	★
		Logo placement on club uniforms	★	★	★	
		Company logo featured on a robot	★	★	★	
		Social media post	★	★	★	
		Logo displayed prominently in club space	★	★		
		Dedicated spot to speak at major events	★	★		
		Team attends DFW location of choice to display robots	★	★		
		Event or robot holds company name	★			
		Receive custom made Comet Robotics plaque	★			
	021					

How to Donate?

DONATE

We appreciate your help in furthering robotics innovation, education, and engineering.

Your donation is making a difference.

1 Write a check to:
“Comet Robotics at UT Dallas”

2 Mail the check to:
5839 Shoreside Bend, Irving, TX 75039

Comet Robotics is a registered 501(c)(3) nonprofit organization.

All donations are **tax-deductible** to the fullest extent allowed by law. Your support helps us advance robotics education, innovation, and opportunities for students in our community.

Contact Info

ANY QUESTIONS? PLEASE REACH OUT

President	Om Davra	osd22000@utdallas.edu
Vice President	Colin Wong	csw220002@utdallas.edu
Combat	Neil Blatzheim	ngb170030@utdallas.edu
Combat	Deklen Nates	dmn230001@utdallas.edu
Competitive	Lucas Igl	lqi230000@utdallas.edu
Competitive	Mudit Upadhyay	mxu220004@utdallas.edu
Marketing	Tian Wang	txw240005@utdallas.edu
Outreach	Ana Wise	axw230026@utdallas.edu
Finance	Jason Antwi-Appah	jxa220013@utdallas.edu
Events	Nathan Wignall	njw230004@utdallas.edu
Facilities	Dylan Bigini	dmb220002@utdallas.edu

Email:	cometrobotics@utdallas.edu
Website:	cometrobotics.org
Instagram:	@comet_robotics_utd
LinkedIn:	https://www.linkedin.com/company/comet-robotics-utd



THANK YOU

**PLEASE CONTACT US AT
COMETROBOTICS@UTDALLAS.EDU**