

# HORIZON

ROBOTICS TEAM

**Sponsorship Proposal**

# Index

This proposal is structured to give prospective sponsors and partners a complete, transparent view of who we are, what we build, and how your investment creates lasting impact.

01 /

## Who We Are

Team profile, mission & vision, values, and community roots.

02 /

## The Project & Innovation

The problem we identified, our engineered solution, build milestones, and live demo results.

03 /

## Future Outlook

Competition roadmap, offseason engineering plans, and long-term scaling goals.

05 /

## Financial Breakdown

Transparent season expenditures, funding requirements, and partnership investment tiers.

06 /

## Call to Action

How to partner with us, next steps, and contact information.



# Who We Are

Horizon Robotics is a competitive youth robotics team from Liceul Teoretic Orizont, Durlești branch, based in Chișinău. Competing in **FIRST Lego League (FLL)** and **FIRST Tech Challenge (FTC)**, we bring together students across mechanical engineering, software development, project management, and community outreach to build with purpose and compete at a high level.

## Awards & Achievements

- Star in the Making title at the FIRST Lego League (FLL) Semi-Finals
- Excellence in Engineering (Excelența în Inginerie) diploma at the National Finals

## Our Mission

To engineer real-world solutions through competitive robotics, cultivating technical excellence, teamwork, and a lifelong commitment to innovation.

## Our Vision

To become a flagship STEM program recognized regionally and internationally 4 inspiring students, families, and institutions to invest in the engineers of tomorrow.



# Values, Work Ethic & Community Impact

Beyond competition, Horizon Robotics is a community anchor — running outreach programs, mentoring younger students, and demonstrating that engineering is accessible to everyone.



## Precision & Excellence

We hold ourselves to the highest engineering standards — every build iteration, every line of code, and every competition run is treated as an opportunity to improve.



## Gracious Professionalism

A core FIRST value — we compete fiercely while supporting fellow teams, sharing knowledge, and modeling integrity both on and off the field.



## Community Outreach

Participating in local STEM fairs, we actively recruit the next generation - particularly from underrepresented communities — into the world of robotics.



## Innovation Mindset

We don't just build robots... we prototype, test, fail, iterate, and improve. The engineering process is our classroom, and curiosity is our foundation.



# The Problems & Our Solutions

## PROBLEM / 01

### The Problem We Identified

Balancing a heavy academic schedule with intensive hardware and software iterations left a minimal window for system testing and performance optimization before deadlines.

### Our Engineered Solution

We developed a rapid prototyping workflow. By running mechanical fabrication and software simulations in parallel, we compressed development timelines and maximized testing efficiency.

## PROBLEM / 02

### The Problem We Identified

Entering an advanced competitive arena meant facing complex technical challenges, requiring us to quickly master intricate system frameworks we had never encountered before.

### Our Engineered Solution

We accelerated our learning curve through a strict internal documentation framework, systematically deconstructing and refactoring testing failures into concrete technical advantages.

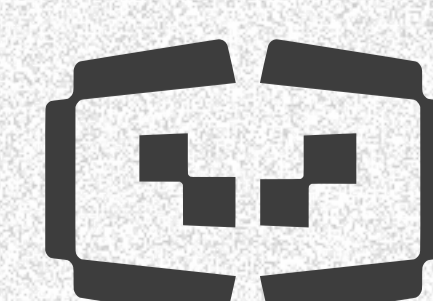
## PROBLEM / 03

### The Problem We Identified

Limited access to custom components and strict prototyping budgets demanded absolute discipline in inventory management and strategic asset allocation.

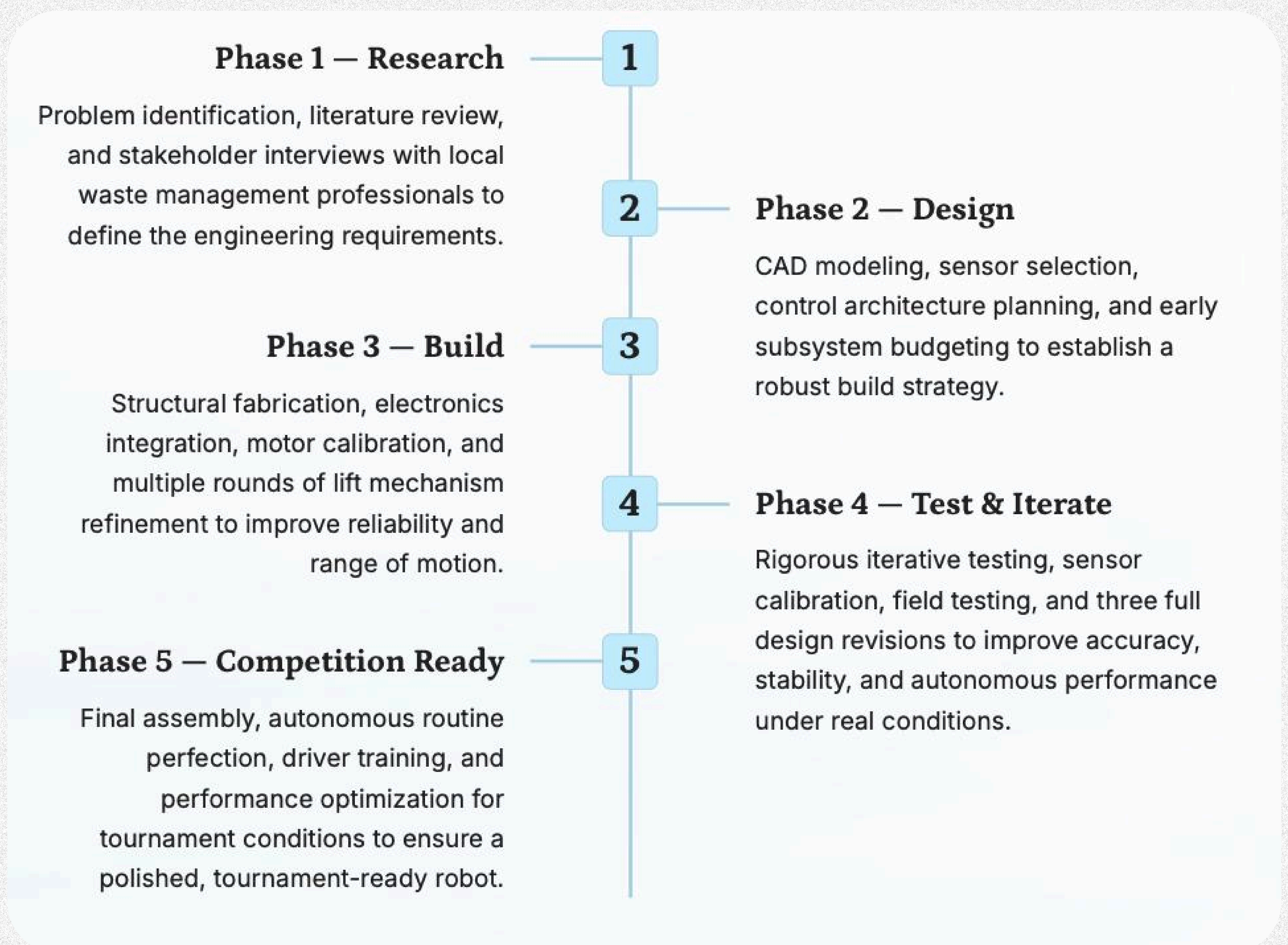
### Our Engineered Solution

We adopted a lean philosophy, pushing our existing hardware to its absolute physical limits through aggressive code optimization and smart mechanical redesigns.



# Build Milestones & Engineering Journey

Our development followed a disciplined engineering cycle — from initial research to competition-ready hardware. Key phases are outlined below.



# Roadmap & Long-Term Vision

Horizon Robotics is not a one-season project & we are building a sustainable, growing program with multi-year competitive and educational ambitions.

## 2026 Competition Season

Qualify and advance through Moldova's regional FTC events, with the goal of reaching the national championship stage and earning a top-3 finish in the Innovation Award category.

## Community & Outreach Scaling

Build a structured mentorship pipeline in our School, hosting a junior workshops, collaborating with other local schools, and growing an annual robotics showcase for students across Moldova.

## Offseason Engineering

Expand our robot's sensor suite, refine our software and autonomous routines, and develop a second-generation prototype to be ready for the next season's challenge.

...and more?

With your partnership, we can expand this roadmap even further!



# Financial Breakdown & Funding Requirements

We operate with full financial transparency. Below is a breakdown of our current season expenditures and projected 2026 funding needs. Your investment goes directly toward building the next generation of engineers.

Budget Category	Amount	Currency	Notes
Robotics Equipment & Parts	15,000	MDL	LEGO Education Spike Prime / Expansion sets
Team Branding & Uniforms	14,000	MDL	Custom team hoodies and apparel
Official Tournament Entry	3,000	MDL	Participation fees
Public Relations & Marketing	8,000	MDL	Banners, stickers, pit display, and outreach PR materials
<b>TOTAL</b>	<b>40,000</b>	<b>MDL</b>	<b>approximately €4,000</b>



# Partner With Us



## Build Brighter Futures

Every donation funds critical student learning and development



## Drive Innovation

Your support helps our team tackle more complex engineering challenges



## Community Impact

Partner with us to inspire the next generation through outreach.



## Contact Us!

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