CleverCircuits
EMBEDDED TECHNOLOGY

Byrot

Build Your Robot

Empowering Innovation in Robotics Education and Beyond

Byrot

INTRODUCTION

BYROT is on a mission to reshape robotics education and mold the future of tomorrow's tech leaders.

Developed by Clever Circuits GmbH, BYROT combines advanced features, and hands-on learning to foster a new wave of robotics innovators.

Our flagship product is designed as a versatile platform that appeals to both beginners and experts in robotics, making it an ideal tool for skill-building across all levels.

Our pitch outlines our market opportunity and product strengths.

We're seeking partnerships and funding to scale our operations and bring BYROT to more educational institutions and individuals, catalyzing the future of robotics learning across Europe and beyond.

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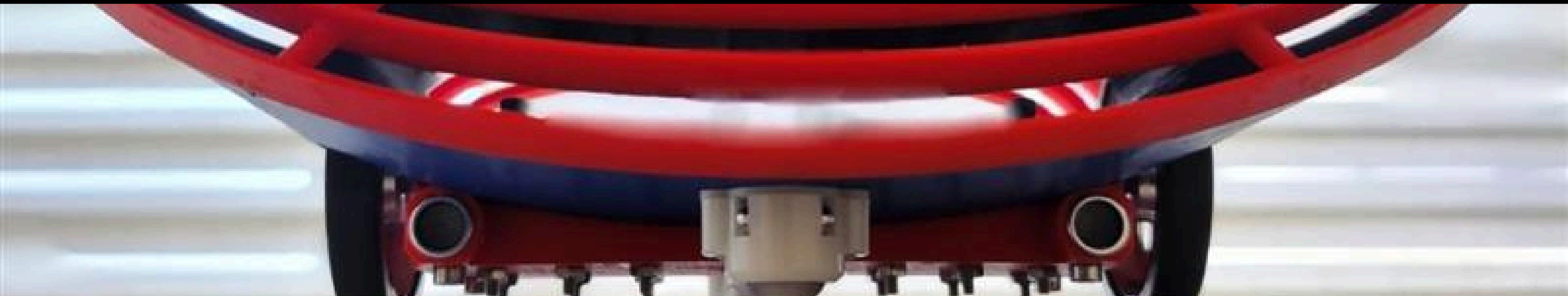
PROBLEM STATEMENT

Robotics education tools are often expensive, complex, and limited in functionality. There is a growing need for accessible, **versatile**, and **affordable** robotics kits that support **Science, Technology, Engineering and Math** education (STEM education) and help users gain hands-on experience with Robotics development.



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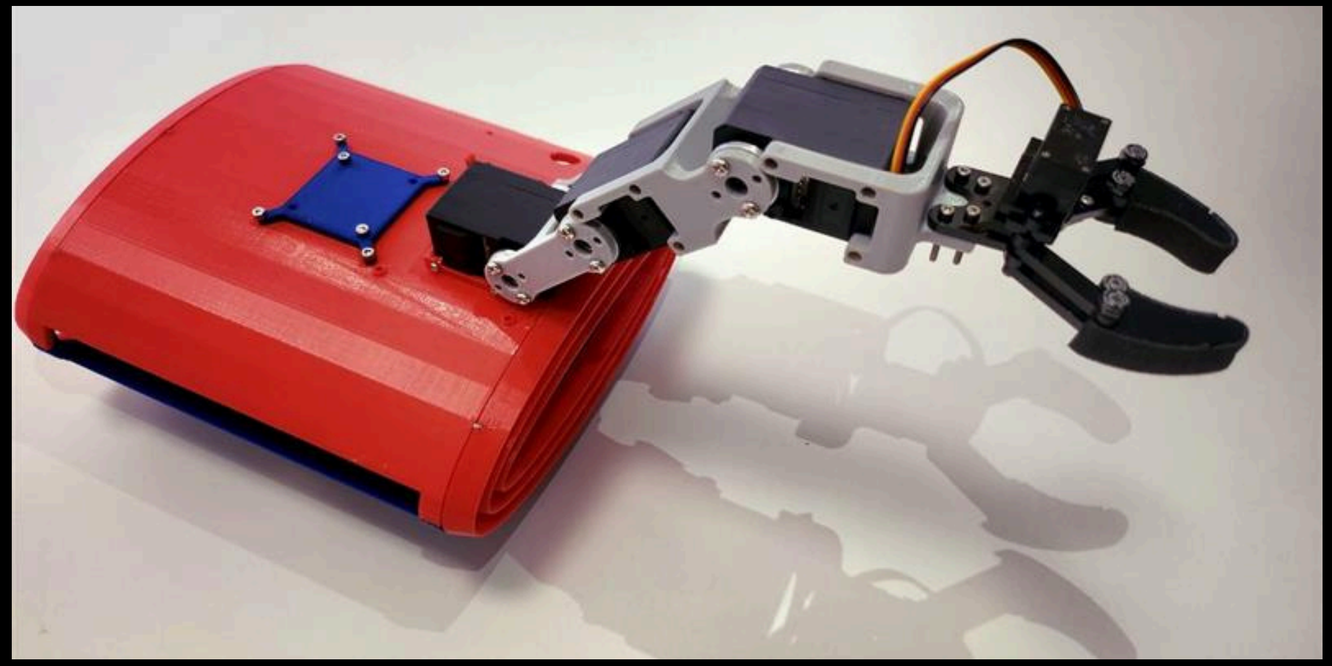
OUR SOLUTION

A versatile, affordable robotic kit for all skill levels, designed for academic, professional, and enthusiast use.

BYROT empowers users to build, program, and explore robotics.

Features like remote monitoring, modular design, and an add-on arm, make it adaptable for a variety of applications.



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MARKET OPPORTUNITY

GERMANY

Estimated at $93 million in 2023, with projected growth to $410.9 million by 2030, driven by a 23.6% CAGR

BYROT's Entry Goals:

- Conservative Estimate: With a 2% market share, expected revenues are approximately $2.5 million in 2025 and $3 million in 2026.
- Optimistic Scenario: Aiming for a 3% share, potential revenues could reach $3.75 million in 2025 and $4.5 million in 2026

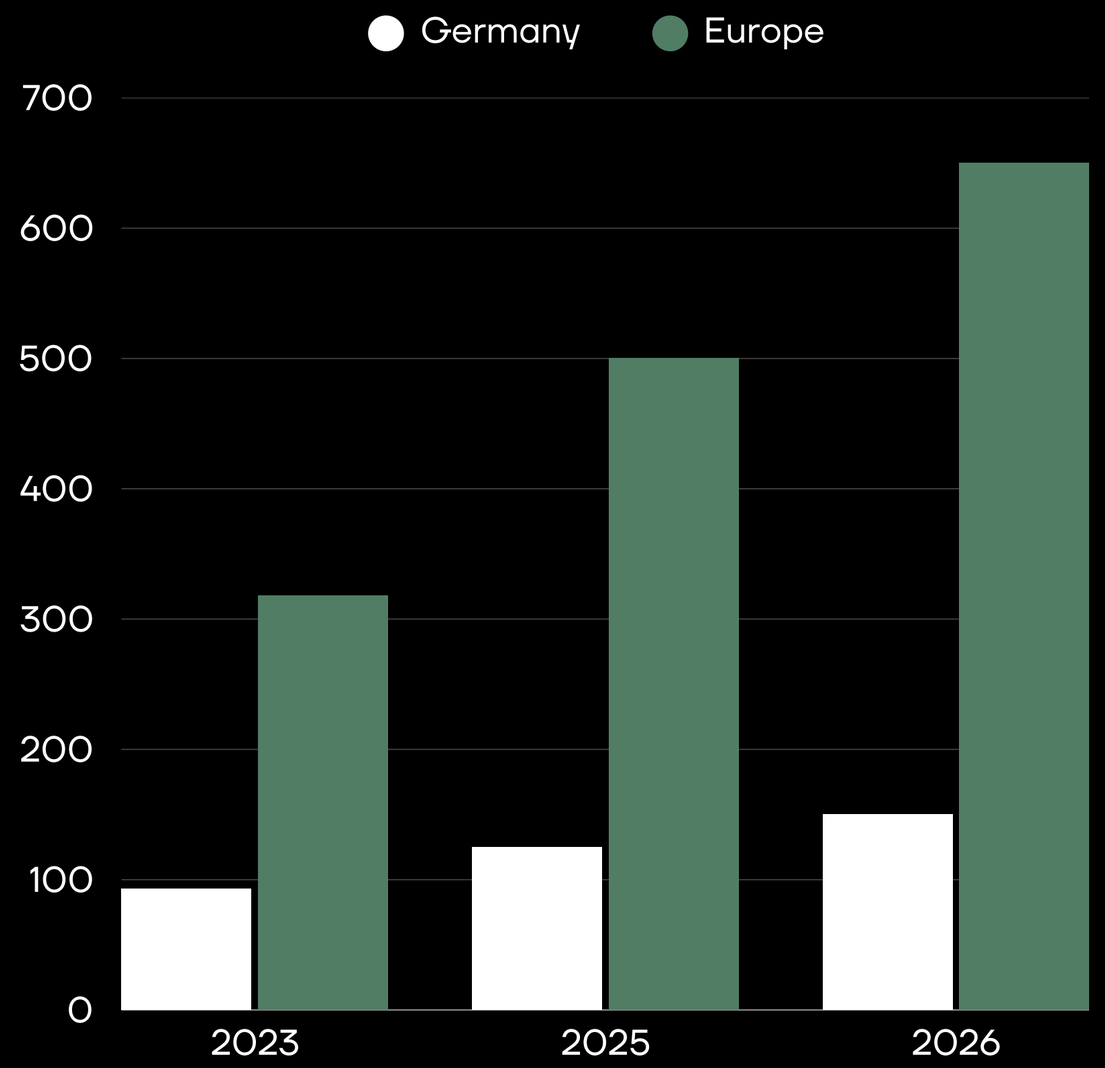
EUROPE

Estimated at $318.8 million in 2023, anticipated to grow to $1.47 billion by 2030 at a CAGR of 24.5%

BYROT's Regional Goals:

Targeting 0.5% to 1% Market Share:

- 0.5% share projects revenues of $2.5 million in 2025, with growth to $3.35 million by 2026.
- 1% share could achieve revenues of $5 million in 2025 and $6.5 million in 2026



EDUCATIONAL ROBOTICS MARKET GROWTH IN THE YEARS 2023 2025 AND 2026

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PRODUCT OVERVIEW

- Addon Arm in the Package
- Versatile
- Sustainable
- Long Battery Life
- User-friendly Application
- Small and Portable Design
- Open-Source Integration
- Remote Monitoring
- Broad Appeal Across Skill Levels
- Detailed Documentation
- Modular Design
- Affordable

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WHAT CAN YOU LEARN WITH BYROT?

Robotics & Problem-Solving

- Foster Analytical Thinking and break down tasks into actionable Steps
- Learn blocking and non-blocking operations for task sequencing.

Dynamic Systems

- Hands-on experience with Sensors, Actuators, Dynamics, and Kinematics.

Python & Embedded Systems

- Code in Python while exploring Embedded Systems.
- Master Hardware Interfacing and Embedded Communication.

Networking

- Expand your expertise in Computer Networking and Real-Time Data Processing.

Robot Operating System

- Build and test Robot Operating System (ROS2) Nodes, Services, and Actions.
- Explore JSON and Sockets by engaging with BYROT's API and server

Computer Vision & AI

- Utilize BYROT's Camera for Real-Time Vision and AI Applications.

Modeling & 3D Design

- Work with Unified Robot Description Format for Robot Modeling and CAD Tools for 3D Design.

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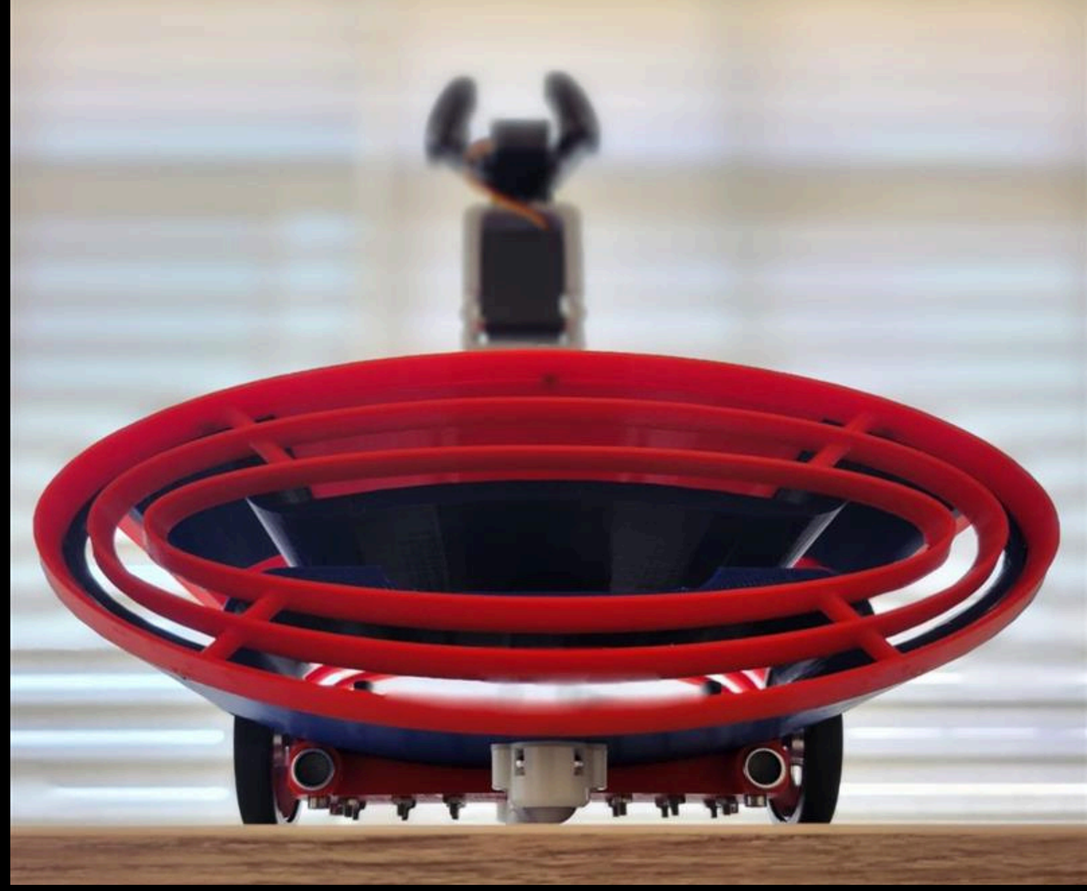
UNIQUE VALUE PROPOSITION

BYROT’s unique value proposition is its combination of advanced features and broad appeal to both beginners and experts.

It supports skill growth from basic robotics to complex programming on a single platform.

BYROT offers a scalable solution for beginners and experts, targeting educational institutions, and making it adaptable tool for enthusiasts.

This versatility and features along with its affordability, set BYROT apart from competitors, making it a trusted choice in the STEM learning market.



Scalable and versatile

Unique Combination of Advanced Features

Appeal to both novice and skilled users

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TEAM

The BYROT team combines Clever Circuits' expertise in agile project management and embedded systems, with top engineering talent through strategic outsourcing.

This approach maximizes efficiency, drawing on years of industry experience to develop BYROT with skilled engineers focused on creating a high-quality, versatile robotics kit.

18+ YEARS OF EXPERIENCE

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THANK YOU

GET IN TOUCH FOR MORE INFO

Website :
www.clevercircuits.com

Phone Number :
+49 (0) 176 28 388 456

LinkedIn :
Charbel Melhem
CEO - Clever Circuits

Email Address :
Charbel.Melhem@clevercircuits.com