

Proposal for Students

Title Page

Proposal for Educational Program: Introduction to Robotics Workshop

Submitted by: ABC Technical Institute

Date: March 3, 2025

Submitted to: Students and Faculty of XYZ High School

Executive Summary

ABC Technical Institute proposes to conduct an "Introduction to Robotics" workshop at XYZ High School. This week-long workshop is designed to introduce students to the basics of robotics engineering, programming, and real-world applications. Our goal is to ignite interest in STEM fields and provide hands-on experience that complements the students' academic curriculum.

Background

In today's technology-driven world, a practical understanding of robotics and programming is invaluable. Yet, many high school curriculums lack specific courses that address these topics in depth. ABC Technical Institute, with its rich background in technical education, seeks to bridge this gap through engaging and educational workshops.

Proposal Details

Workshop Name: Introduction to Robotics

Duration: 1 week (5 sessions, 3 hours each)

Target Audience: Students in grades 9-12 interested in STEM

Location: XYZ High School, Computer Lab Room 101

Workshop Curriculum

- **Session 1:** Overview of Robotics - History and Key Concepts
- **Session 2:** Basic Robotics Engineering - Components and Assembly
- **Session 3:** Introduction to Programming - Using Python for Robotics
- **Session 4:** Hands-on Robot Building Session
- **Session 5:** Testing and Troubleshooting - Student Teams Present Their Robots

Objectives

- To provide students with a foundational understanding of robotics.
- To develop critical thinking and problem-solving skills through hands-on activities.
- To inspire students to pursue further education and careers in STEM fields.

Resources Required

- Robotics kits for student use
- Access to the school's computer lab
- Instructional materials and handouts
- Two instructors from ABC Technical Institute

Budget

- **Total Cost:** \$2,000
- Breakdown:
 - Robotics kits: \$1,200
 - Instructor fees: \$600
 - Materials and handouts: \$200

Evaluation

Success will be measured through:

- Pre- and post-workshop surveys to assess changes in students' understanding and interest in robotics.
- Feedback from students and faculty on the workshop's effectiveness and engagement.
- Student performance during the hands-on sessions and their final presentations.

Conclusion

This workshop promises to be an enriching addition to XYZ High School's STEM offerings, providing students with a unique opportunity to explore robotics in a practical, engaging setting. ABC Technical Institute is excited to collaborate with XYZ High School to foster a new generation of tech-savvy individuals.

Next Steps

To move forward with this proposal, we request a meeting with the school's administration and science department faculty to finalize the schedule and arrangements. We hope to conduct this workshop during the fall semester of 2025 and look forward to your approval and cooperation.