Problem Statement

Design a prototype of a prosthetic hand that incorporates principles of adaptation and innovation inspired by "Roz the Wild Robot." The prosthetic should leverage biomimicry and advanced technology to enhance the user's quality of life by mimicking the natural adaptability and resourcefulness exemplified by Roz in the novel.

Challenge:

Create a functional, adaptable, and innovative prosthetic hand that:

1. **Incorporates Biomimicry:**
    - Study the natural world to find inspiration for the design and functionality of the prosthetic hand.
    - Identify specific characteristics of adaptability and resourcefulness in nature that can be integrated into the prosthetic.
2. **Utilizes Advanced Technology:**
    - Implement cutting-edge materials and technology to create a prosthetic that is both durable and flexible.
    - Explore and integrate sensors, actuators, and control systems to enhance the prosthetic's functionality.
3. **Enhances Quality of Life:**
    - Focus on user needs and ensure the prosthetic is comfortable, easy to use, and improves the user's daily activities.
    - Ensure the design is user-friendly and adaptable to different tasks and environments.

Project Goals:

- **Creativity:** Encourage innovative thinking by drawing inspiration from the novel "Roz the Wild Robot" and the natural world.
- **Technical Skill Development:** Develop skills in engineering, design, and technology through hands-on prototyping and testing.
- **Understanding Nature-Inspired Solutions:** Gain a deeper understanding of how biomimicry can be applied to solve real-world problems and improve lives.