

Abstract

In the proposed project, we undertook the challenging task of building a Selective Compliance Assembly Robotic Arm (SCARA). This endeavor not only involved the physical construction of the robotic arm but also required students to engage deeply with both mechanical and electrical engineering principles. The project's primary goal was to provide students with hands-on experience in robotics, focusing on the assembly and operational functionality of a SCARA robotic arm. This experience was designed to mirror real-world engineering challenges, allowing students to apply theoretical knowledge in a practical setting.