Summary  
  
This paper deals with a prototype robot arm project. It includes design and manufacturing steps. The first part provides information about the current industry 4.0 technologies, the use cases of industrial robots and their control systems based on the article research. This information provides a background on the reason for the project.  
  
The second chapter deals with the design and manufacturing steps of the prototype arm. First, information about the definition and purpose of the prototype is given. Then, the design process is detailed using software such as SolidWorks. The manufacturing process is detailed with an explanation of the components used. Information about the control system of the robot arm is given. Next, information about the circuit design is given and how the robot will be controlled is explained.   
  
This project provides an example of industry 4.0 technologies and demonstrates how the design and manufacturing steps will be realized. The project provides information about the usage areas and control systems of industrial robots and shows the potential of these technologies.