

# Arm

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In the realm of robotics, the pursuit of replicating human capabilities through mechanical ingenuity has ushered in a new era of innovation. This paper delves into the intricate art of designing a mechanical arm for a full human robot project, where the complexities of human arm dynamics serve as a canvas for engineering exploration. By closely emulating the biomechanics of the human arm, we embark on a journey to create a robotic limb that not only mirrors human-like motion but also expands the horizons of mechanical precision and versatility. Through meticulous analysis and inventive engineering, we navigate the interplay of functionality and design, illuminating the path toward a future where human-robot interaction transcends the boundaries of imagination.



Figure 1: Mechanical T-800 arm concept