

# Neck

Fantin Gauthier

August 29, 2023

In the evolving landscape of robotics, the quest to replicate human attributes within machines has led to a convergence of biological inspiration and engineering innovation. This paper delves into the intricate realm of designing a biomimetic neck for a full human robot project, where the intricate biomechanics of the human neck serve as a foundation for mechanical emulation. By closely mirroring the natural movements and structures of the human neck, we embark on a journey that not only strives to capture lifelike motion but also expands the horizons of robotic articulation and interaction.



Figure 1: Neck concept by Edon Guraziu [www.artstation.com/guraziu](http://www.artstation.com/guraziu)