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Greenest Day 7 Biomimicry

**BIOMIMICRY**

*The practice of designing products based on similar entities that already exist  
in nature.*



## REFLECTION

The Northrop Grumman B-2 Spirit was one of the original stealth bombers whose designs were based off of the world's fastest animal, which is the peregrine falcon. While diving, the highest speed a peregrine falcon can achieve is 242 mph (about 389 kmph), according to the *Aerospace magazine*. A falcon named "Frightful" achieved this speed while diving.<sup>1</sup> The design around it is supposed to be aerodynamic and the peregrine falcon was the perfect inspiration due to it having evolved for countless years to achieve the best shape and aerodynamicity. This is truly inspiring because it is proof that humans have a lot to learn and planet Earth has a lot more secrets to be as functional as it is today. Humans clearly don't have a full grasp on the mysteries of nature. This already has applied to our lives because, upon further investigation, we've found that food, clothing, buildings, technology, and even

breakthroughs in transportation have been inspired by animals such as birds and sea creatures, causing the invention of aeroplanes and submarines.<sup>2</sup> Even everyday items such as velcro, which is used in shoes and appliances, was discovered in wilderness when George de Mestral was inspired by burrs he found on himself after a walk.<sup>3</sup> Biomimicry has opened our eyes to how we use nature for our own creations, despite trying to destroy it.

## REFERENCES

1. <https://www.airspacemag.com/flight-today/falling-with-the-falcon-7491768/>
2. <https://www.dawn.com/news/1297127>
3. <https://www.microphotonics.com/biomimicry-burr-invention-velcro/#:~:text=Velcro%20was%20invented%20by%20George,burr%20to%20adhere%20exceedingly%20well.>