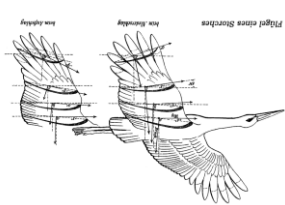




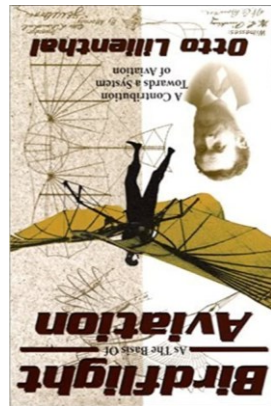
Lilienthal's first glider 1891



*"Our first wings measured 2 meters by 1 meter and consisted of thin beach veneer, with straps at the undersides, through which we pushed our arms. It was our intention to run down a hill and to rise against the wind like a stork."*

It includes the story of Otto & his brother Gustav's first flying experiment, when they were 13 & 14 years old

After crashing his glider, his last words were "Opfer müssen gebracht werden" (sacrifices must be made)



Lilienthal's book *Birdflight As The Basis of Aviation* came out in 1889.

The object of this was to ascertain practically whether stable sailing and equilibrium was possible...

For this reason I gave up for the time being motor mechanisms altogether, and limited myself to the simplest form of flight – namely, gliding downward in an inclined direction.

Through my long familiarity with air and wind I had come to the conclusion that a particular class of difficulties was next to be overcome...



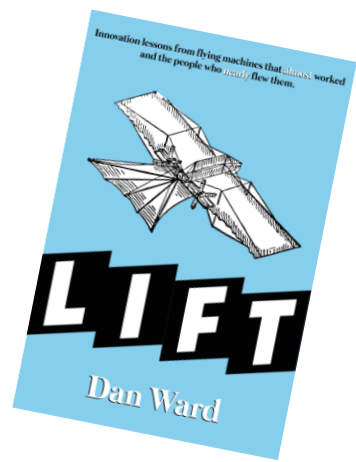
He's on stamps AND on money!



Listen to Otto's frustration over wing shape in a paper he published in 1893:

*"...to us who abandoned flat wings fully two decades ago, it seems almost inconceivable that experimenters should cling so tenaciously to... the hopeless task of trying to fly with flat wings..."*

*Even now the flat wing does not show any sign of disappearing from the field very soon."*



Learn more lessons from Lilienthal in Dan Ward's new book LIFT!

[www.thedanward.com/LIFT](http://www.thedanward.com/LIFT)



Otto Lilienthal 1848-1896