

THE WRIGHT BROTHERS

WILBUR WRIGHT FLIES
THE HUDSON RIVER

FLYING IN AIR
WILL BE POPULAR

Wright's Aeroplane
Ascends Like Bird;
Control Is Perfect

ORVILLE WRIGHT'S FLIGHT
DELIGHTS OFFICERS OF ARMY
ASPECT OF WRIGHT AEROPLANE.



WILBUR WRIGHT FLIES MORE THAN HOUR AND HALF,
REMARKING SIMPLY: "THIS WILL CHEER ORVILLE UP A BIT."

...ial Yet Made in France, Circling
Control of the Aeronaut,
Satisfied.

the American Ambassador and Aero-
naut Officially He Easily Breaks
World's Record.
VINDICATES HIS MACHINE.
His Mettle to Prove Recent Mishap
Merely Accidental, His Object
To Attain it.



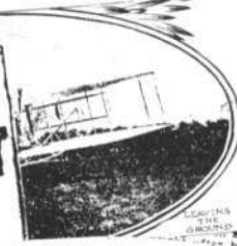
DAYTON FLYER MAKES
FIRST PERFECT TEST

NEW YORK HERALD.

"As scientists, they discovered the secret of flight. As inventors, builders and flyers,
they brought aviation to the world."

Wright's Aeroplane Flies Nearly 20 Minutes in Air, First of Miles
Approaching Within Few Seconds of Farman's Best Record

NEW WORLD'S FLYING RECORD
MADE BY AVIATOR WRIGHT



Encircles Parade Grounds at Ft. Myer 66 Times and Remains in the Air 57 Minutes and
seconds—Early Ascension Made in the Presence of Only 25 Spectators Smashes All Aero-
Records, Easily Exceeding Delagrang's Recent Remarkable Flights.

WRIGHT, IN 73-MILE
FLIGHT, BREAKS ALL
WORLD RECORDS

stood today than yesterday. This
Mr. Wright replaced the runner
yesterday and at 5 o'clock this
the machine was taken to the
nd of the drill ground, where
t apparatus is located. A pre-
st of the motor proving mat-
taken from under it, and the
speed increased. Leave
operator, and, dip
ed to rise as it mad-
f of the field.
ate Mistake.

terday's mishap,
he machine when
id, but with ease
proached nearer,
veral sharp tur-
ted the instab-
was able to
ending, too
most improv-
e's perfor-
it was
round of

ucceeding day
he landed. "I
of the
rence
far-
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I w
tic
wide

FRANCE HONORS
WILBUR WRIGHT
MAGNIFICENTLY

Statesmen and Scientists of
Republic Pour Forth Most
Extravagant Praise
for Aviator.

TWO GOLD

NEW YORK HERALD, PARIS, SUNDAY, APRIL
KING VICTOR EMMANUEL

"The Project Gutenberg eBook of The Wright Brothers, by Anonymous

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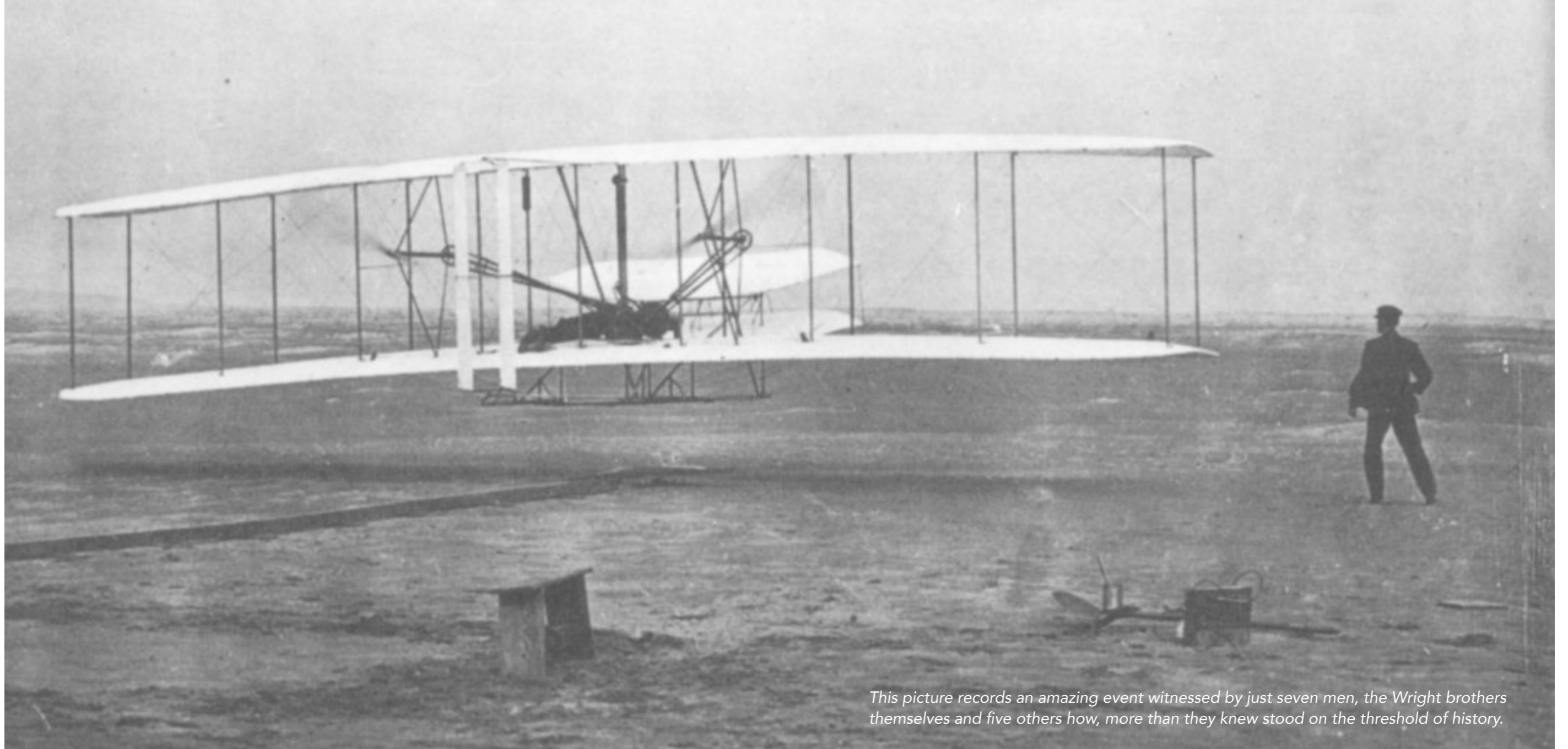
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This picture records an amazing event witnessed by just seven men, the Wright brothers themselves and five others how, more than they knew stood on the threshold of history.

**“THE FIRST FLIGHT AT KITTY HAWK,
DECEMBER 17, 1903.”**

“On December 17, 1903, at Kitty Hawk, North Carolina, the first power-driven heavier-than-air machine ever to achieve sustained flight rose from its starting track and in 12 seconds soared through the air for a distance of 120 feet.

“Short as this flight was, it nevertheless marked the beginning of man’s conquest of the air. Orville Wright was at the controls; Wilbur Wright balanced the machine at the take-off.” This event was not very long ago!

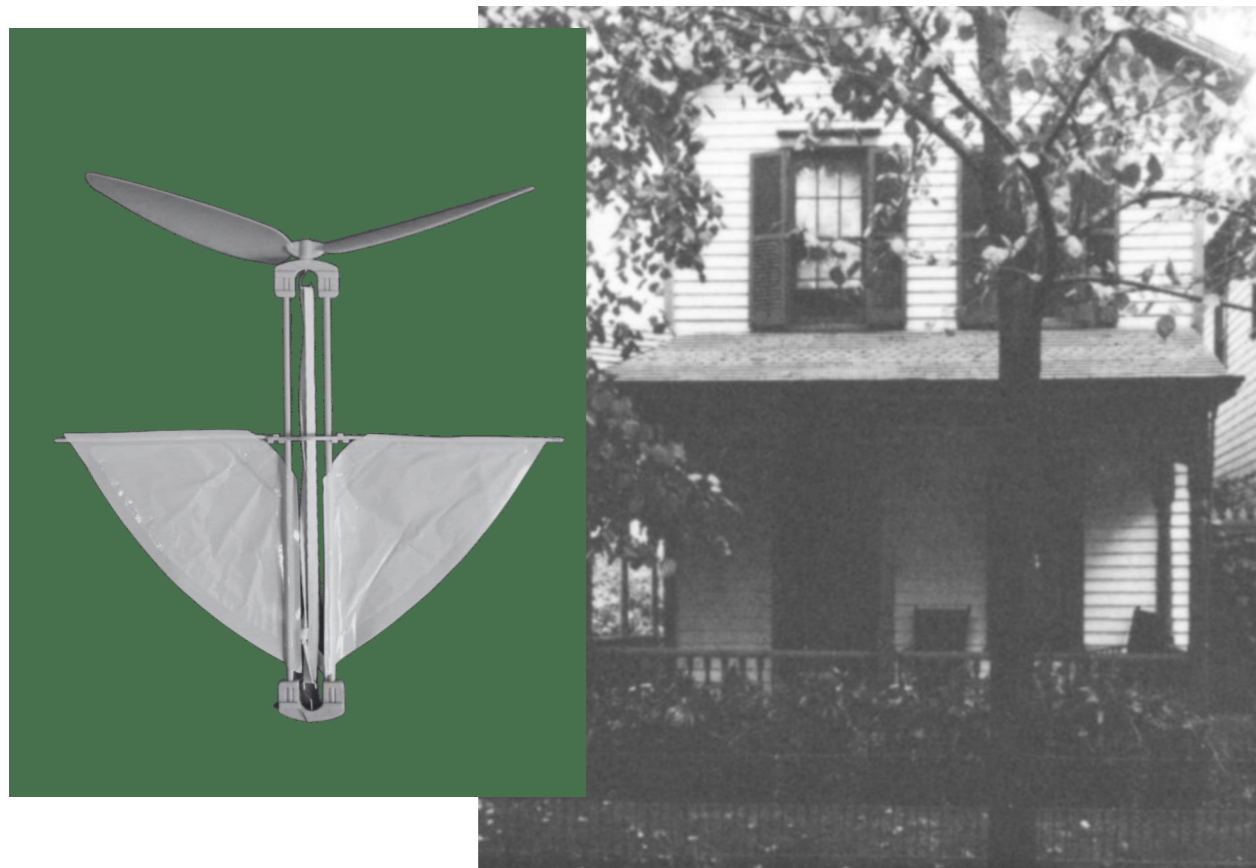


“AN IDEA IS BORN”

“The Age of Flight, with its miracle of service, began in an obscure little bicycle shop in Dayton, Ohio. Here two devoted brothers, Wilbur and Orville Wright, working amid tires, wheels and air pumps, dreamed that man could fly!

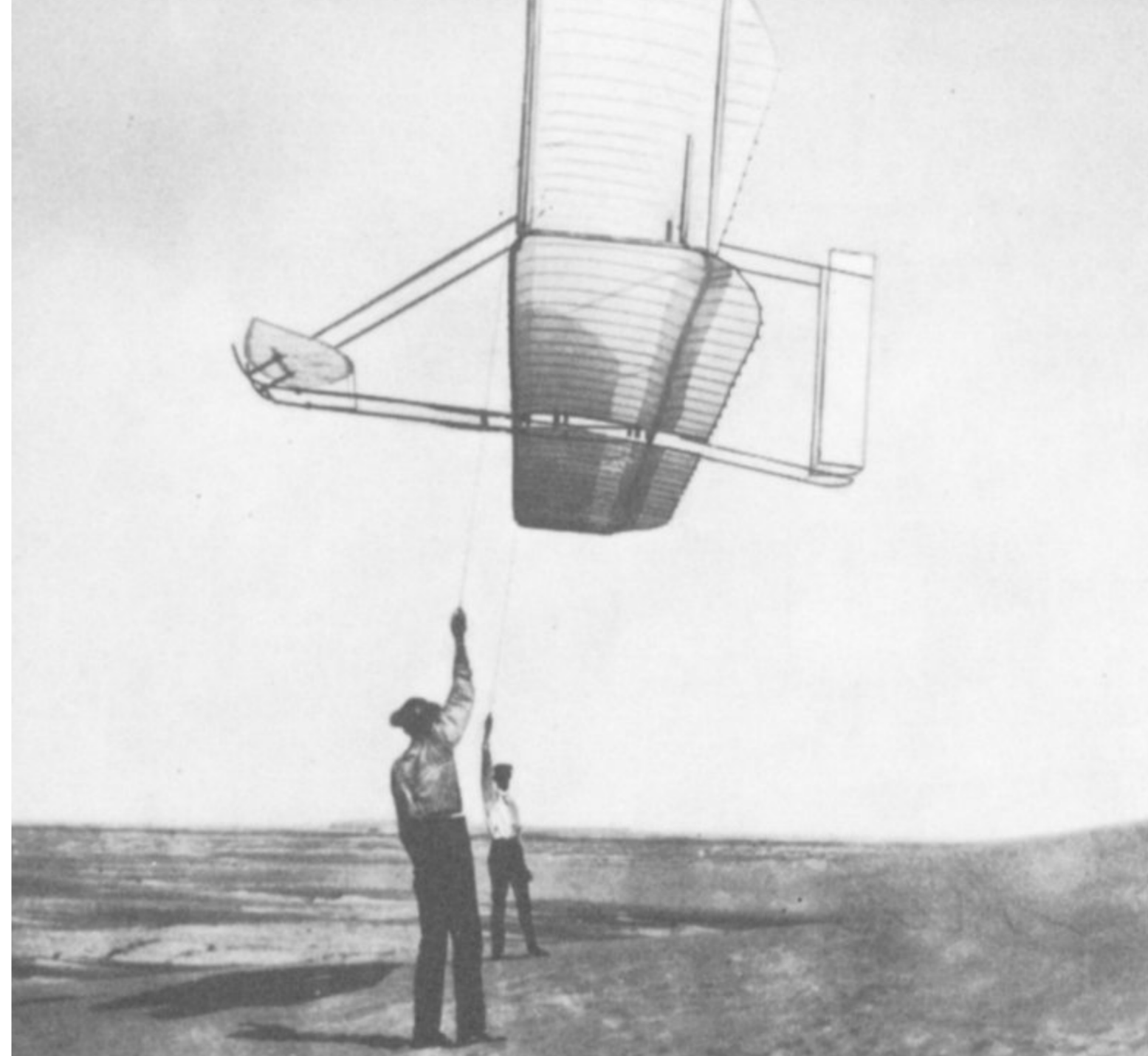


“From earliest childhood, the boys were mechanically minded. They had both the inclination and the aptitude for creative work. The pioneering urge and the gift of original thinking were theirs.”



“AN IDEA IS BORN”

“One day when the boys were small the Bishop came home from a short trip, bringing them a present. He held something in his hands and then tossed it toward them. It was a toy helicopter. Instead of flopping to the floor, it ascended to the ceiling where it fluttered before it fell.” That toy helicopter planted the excitement for flight in them.



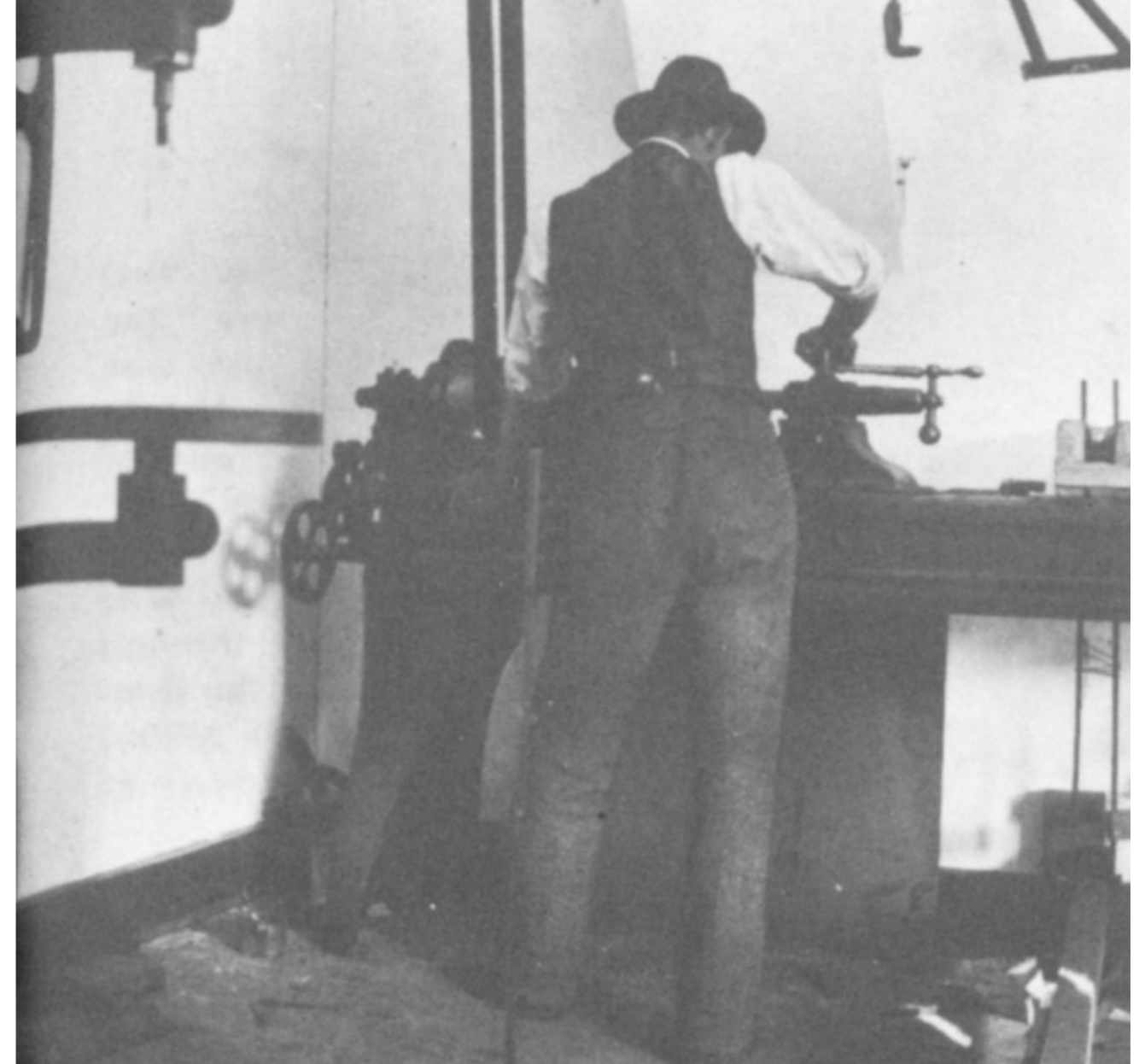
“At an early age they began to fly kites. They became interested successively in wood cuts, printing and photography. The urge for invention was strong in them.



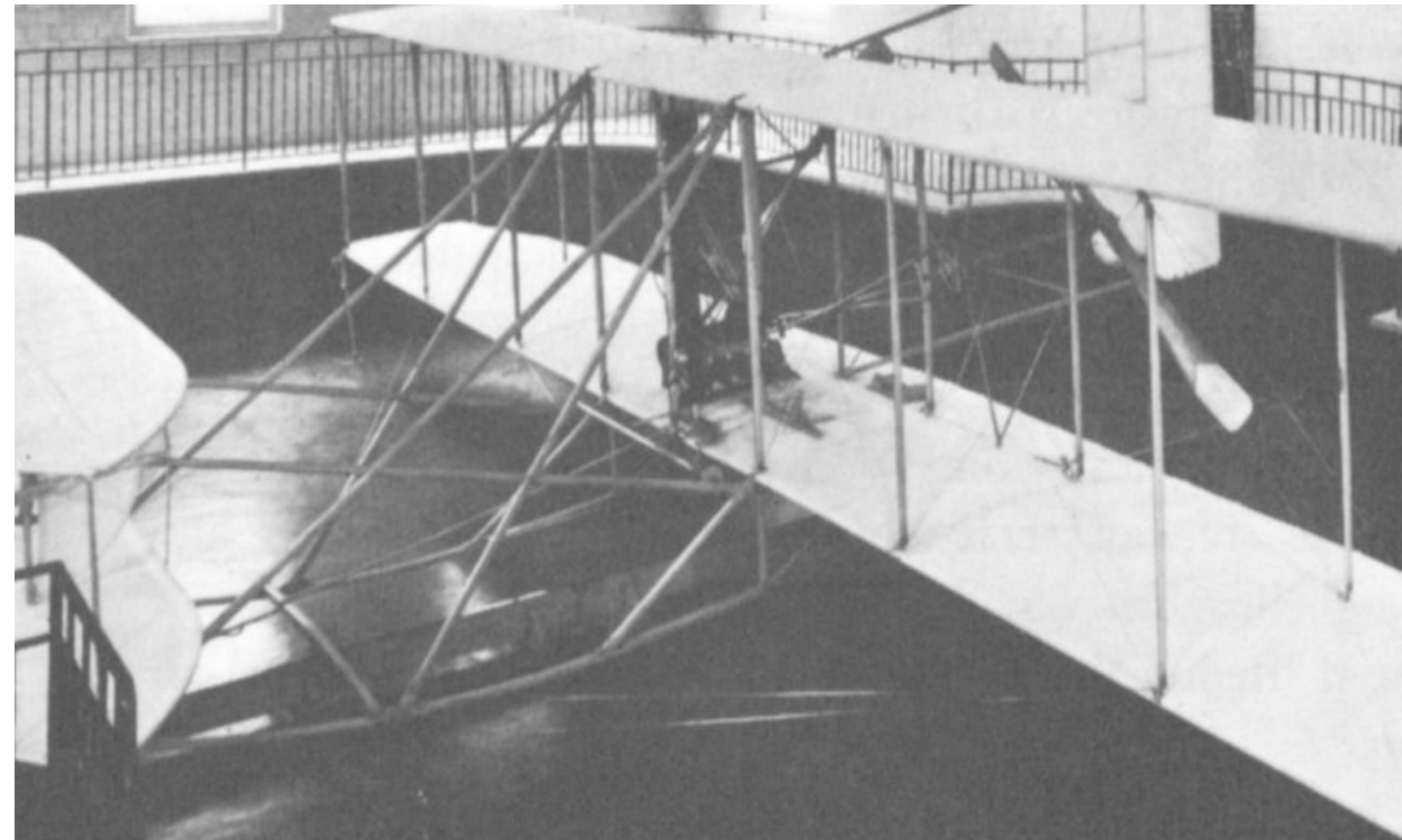
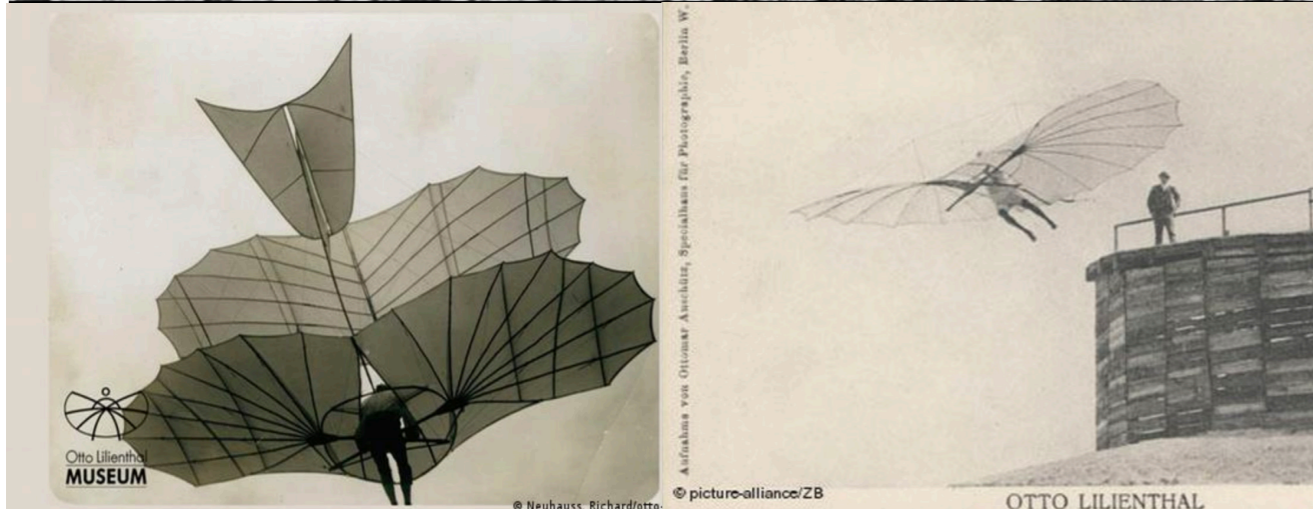
"EARLY VENTURES"

At 14 Wilbur got a job folding the entire issue of an eight-page church paper. When he found the handwork tiring and tedious, he designed and built a simple machine that helped do the folding."

"Orville was no less enterprising. When he was 15, he entered into a partnership with Ed Sines, a neighbor boy, and launched the printing firm of Sines and Wright in a corner of the Sines kitchen. One of their first ventures was to print a little paper called "The Midget."



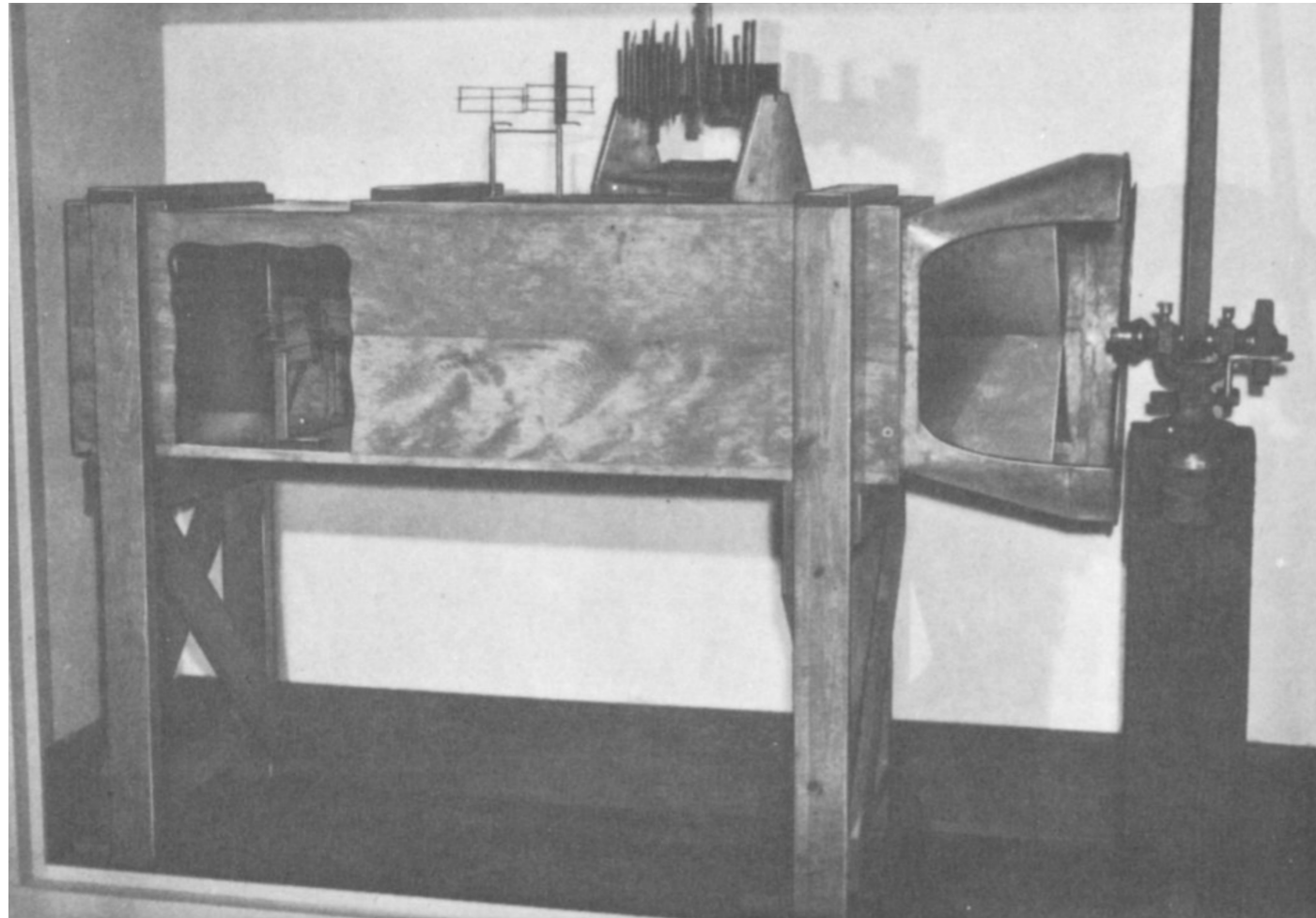
"Soon the boys became absorbed in bicycles. Orville became interested in track racing and participated in several events. In their enthusiasm the boys decided to go into the bicycle business. After embarking on bicycle selling they discovered they must have a repair shop. Business increased to such an extent that the Wrights soon began to manufacture bicycles. It was here in their bike shop that Wilbur and Orville not only dreamed of flying but practically built the first plane."



ROLE MODELS – OTTO LILIENTHAL

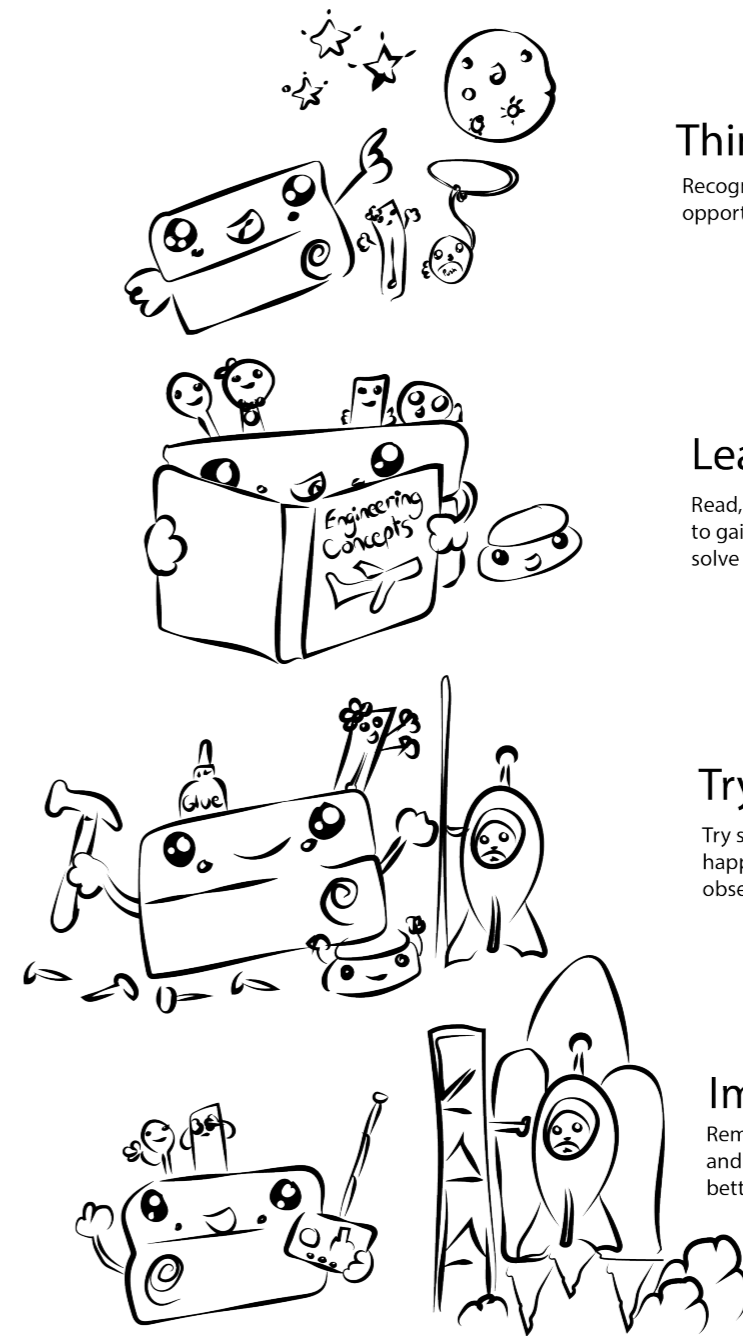
“The Wrights went thoroughly into the problem of gliders. Otto Lilienthal was a German who had been studying birds and built many successful gliders with curved wings. However, in 1896 he crashed and died when his glider encountered wind currents that it could not handle. This great pioneer inspired and helped the brothers understand what to do next.

The brothers discovered that neither he nor any other man who glided had an adequate method of insuring lateral balance. In seeking the solution to this problem, Orville worked out a theory for the operation to vary the inclination of sections of the wings, thereby obtaining force for restoring balance. This made it so the pilot could easily adjust the wings to the glider as needed.



BUILDING MODELS

The Wright brothers built many small models of their planes and tested them in a wind tunnel they built out of an old starch box to see how they would fly. Eventually they would go on to develop the first successful motor-operated airplane.



Think and Define

Recognize the problem or design opportunity

Learn

Read, explore, and talk to people to gain the knowledge you need to solve your problem

Try

Try stuff, build stuff, see what happens, experiment, make observations

Improve

Remember what didn't work well and try again. Make your solution better

YOUR TURN !

Just like the wright brothers you are endlessly creative! Building and testing your own model gliders is fun and you can learn all about the engineering design process. There is still so much to learn about planes and how to improve them. Let's get started!

by noon and got the
molecules out on the
trucks, got part of the
building ready for a
trial from the first
The road was gradually
drying and by 4:30
we were ready to
run my only about 475
miles per sec. After
walking over 8 hours
I was within 1/2 mile
large up. again we had
the molecules in.

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Thursday, Dec. 17th

Then we got up
road of 2000
25 miles was there in
the north. We got the
molecules out only and
put out the oxygen in
me with the station. After
we were quite ready, John
I. Lewis, W. S. Kunkin,
A. D. Eberhard, Jr. &

running the engine and
preparing a test run
while he got them in
order, I got on the truck
at 10:35 for the first
trial. The road recorder
in the maintenance
building was running a
trial run - 0 miles per
second (27 miles per
sec) in the experiment at
Wilmington at Kelly Brook.
I was going the other
direction in which to
measure in which to
measure 9 or 8 miles. The
molecules left from the
truck just as it was
starting in the north and
the Daniels left a
line just as it left the
trucks. I found the
content of the first
the great difference on
account of the very low
and how fast a London
to have the effect of

I ♡ STEM Taught®