



Little Leonardo's™ Fascinating World of Engineering introduces kids to many different types of engineering they can aspire to. Engineers design and build all sorts of things, from the tiny microcircuitry in smartphones to large projects like dams and bridges that transform the very face of the planet. Included are a glossary of terms and brief biographies of important engineers.

With original Renaissance man Leonardo da Vinci as inspiration, these charming primers are the perfect way to encourage your brilliant child's interest in the fascinating worlds of the educational STEAM curriculum: Science, Technology, Engineering, the Arts, and Mathematics.

\$12.99 U.S. • Ages 4 to 8

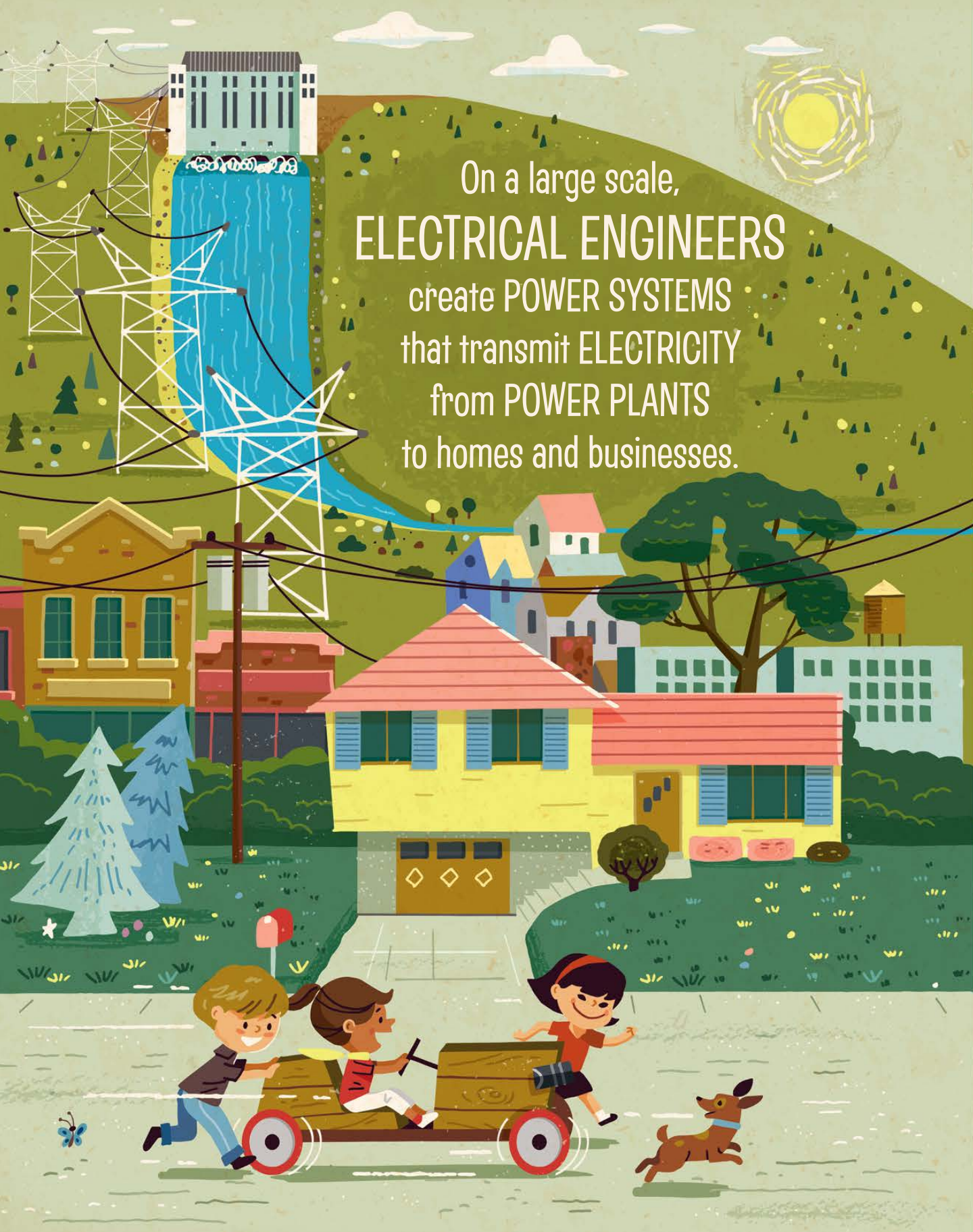


LITTLE LEONARDO'S™ Fascinating World of ENGINEERING Paprocki ★ Cooper GIBBS SMITH

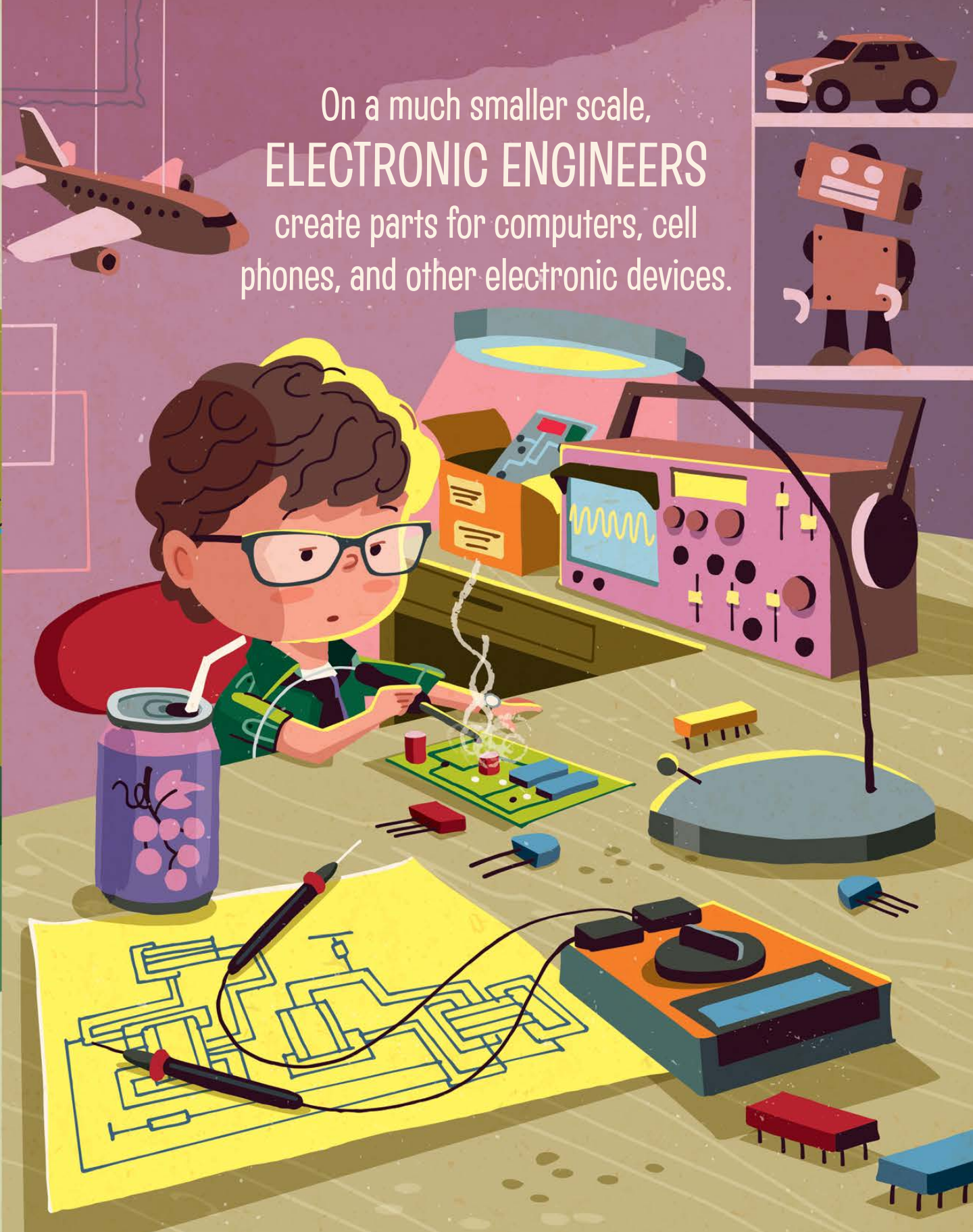


Illustrated by
GREG PAPROCKI

Written by
BOB COOPER



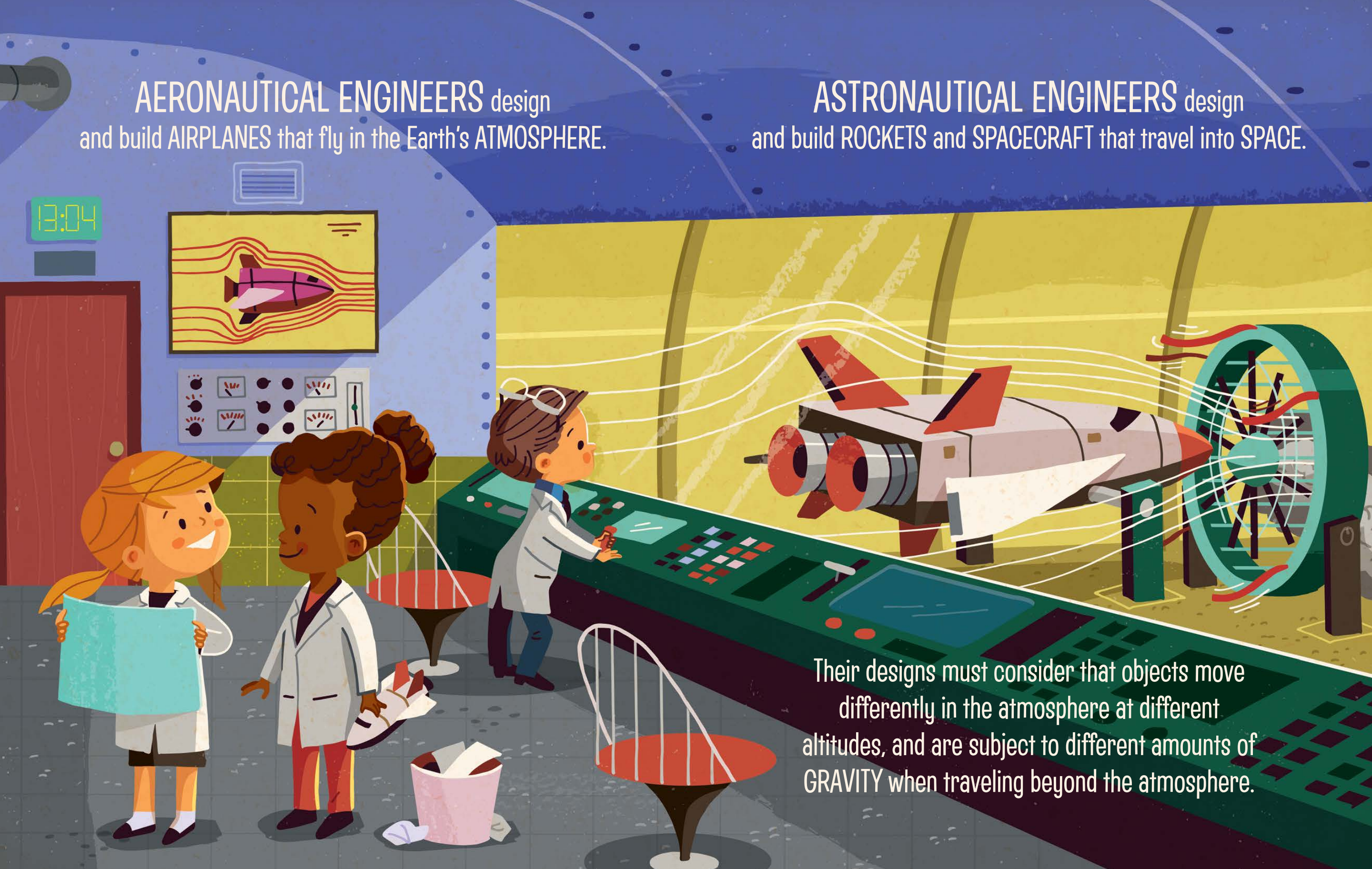
On a large scale,
ELECTRICAL ENGINEERS
create POWER SYSTEMS
that transmit ELECTRICITY
from POWER PLANTS
to homes and businesses.



On a much smaller scale,
ELECTRONIC ENGINEERS
create parts for computers, cell
phones, and other electronic devices.

AERONAUTICAL ENGINEERS design
and build AIRPLANES that fly in the Earth's ATMOSPHERE.

ASTRONAUTICAL ENGINEERS design
and build ROCKETS and SPACECRAFT that travel into SPACE.



Their designs must consider that objects move differently in the atmosphere at different altitudes, and are subject to different amounts of GRAVITY when traveling beyond the atmosphere.

BIOMEDICAL ENGINEERS create new medical technology by combining engineering with their knowledge of biology and other life sciences.



"Smart" artificial limbs will eventually provide nearly the same movement and reactions as a normal limb.



Engineers in the field of **ROBOTICS** have been working on creating a robot that can do all the same things a human can, including using **ARTIFICIAL INTELLIGENCE** to make decisions.



INDUSTRIAL ENGINEERS try to improve how we do many of the things we do, at both work and play.

For example, by counting how many ticket takers there are and measuring how much time it takes for you to give them your ticket and get in the car, they can design ways to make the lines at your favorite theme park shorter or move more quickly.

SYSTEMS ENGINEERS study whole systems to try to make all their parts and processes work together in the best possible way.

It could be a complicated machine made up of thousands of parts, like a car. Or it could be a business with hundreds of people who create and sell products.



Many different kinds of engineers work to design things that make our lives better. Everywhere you look you'll find something that an engineer created.

What kind of an engineer would *you* like to be?