

FUTURE JOBS READERS

Level 1 - 0

Robotics Engineers

Kelly Daniels

Series Editor Casey Malarcher

Seed
Learning

Audio CD Included



Contents

The Job of Robotics Engineers	4
How to Be a Robotics Engineer	10
Robots at Work	18
Looking to the Future	26
Comprehension Questions	28
Glossary	29
Notes	31

For Review Only

The Job of Robotics Engineers

Who makes robots?

Robotics engineers make them!

What kind of people make good robotics engineers?



Engineers working on a robot

Robotics engineers need to be creative.

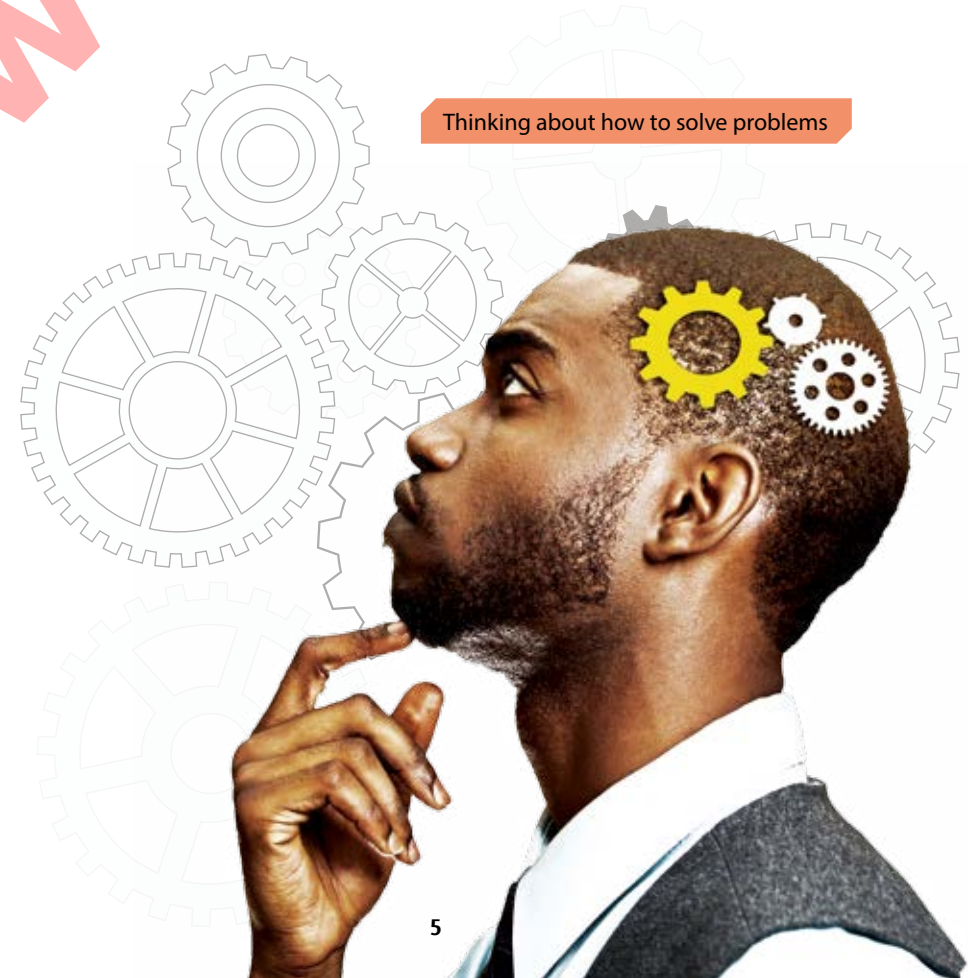
Building a robot is not easy.

New problems come up all the time.

Robotics engineers also need to be patient.

It takes a long time to build a good robot.

Some robots take years and years to make!



Thinking about how to solve problems

Robotics engineers make robots for all different kinds of jobs.

They make robots to do hard work.

Strong robots can lift and move heavy things easily.



◀ A robot in a car factory



A robot in a factory that makes computer parts

Robotics engineers make robots to build things.

Some things have very small parts.

Robots can put the pieces together very carefully.

Robots make fewer mistakes than people.

Robotics engineers make robots to help people.
Some robots work in hospitals.
Doctors use them to help sick people.
These robots must be carefully made so they are clean and safe.

◀ A medical robot



Robotics engineers make robots to play with people.
Sometimes these robots play very well.
Today, computers can easily win at chess against people.
So computers play against each other to see which is the best in the world!



▶ Playing chess against a robot



Comprehension Questions

- Robotics engineers need to be ...
 - clean and kind.
 - creative and patient.
 - simple and nice.
 - small and careful.
- Where can young people learn about robots before they go to university?
 - In contests
 - In robotics summer camps
 - In special programs
 - All of the above
- Who do assistant engineers learn from at companies?
 - Experienced engineers
 - Only people with Ph.D.s
 - Master degree students
 - All of the above
- Today, most robots can be found in factories that make ...
 - cars.
 - computers.
 - things for doctors.
 - robots.
- What is true about robotics engineering programs today?
 - The experiments done in them are dangerous.
 - Not many universities have them.
 - They are only for Ph.D. students.
 - All of the above

Glossary



▪ **assistant** (n.) a person who helps another to do a job



▪ **contest** (n.) a race or event with a prize for the best



▪ **creative** (adj.) having the ability to make or think of new things



▪ **degree** (n.) a title given to a student at the end of a course of study



▪ **engineer** (n.) a person who thinks of new ways to build things or solve problems