Technology: Introduction to Electronics & Robotics

binary number
a number in the base 2 number system.
<https://www.youtube.com/watch?v=qdFmSlFojIw>

bit
a binary digit.
<https://www.youtube.com/watch?v=qdFmSlFojIw>

byte
8 bits.
<https://www.merriam-webster.com/dictionary/byte>

C
a programming language commonly used for small computers & robots.
<https://en.wikipedia.org/wiki/C_%28programming_language%29>

connecting wire
completes a circuit.

electric motor
converts electrical energy to mechanical energy.
<https://en.wikipedia.org/wiki/Electric_motor>

electrical tape
adhesive tape made of insulating material (usually plastic).,https://en.wikipedia.org/wiki/Electrical\_tape

for
used to set the conditions for repeating a loop.
<https://en.wikipedia.org/wiki/For_loop>

function
a set of instructions that perform a frequently needed task within a program.
<http://www.mathopenref.com/functionsprog.html>

generator
converts mechanical energy to electrical energy.
<https://en.wikipedia.org/wiki/Electric_generator>

hexadecimal number
a number in the base 16 number system.
<https://www.youtube.com/watch?v=LpuPe81bc2w>

if
used for conditional execution.
[https://en.wikipedia.org/wiki/Conditional\_(programming)](https://en.wikipedia.org/wiki/Conditional_%28programming%29)

LED
Light Emitting Diode produces light only for one direction of DC current flow.
<https://en.wikipedia.org/wiki/Light-emitting_diode>

light bulb
produces light for both directions of DC current flow.
<https://en.wikipedia.org/wiki/Incandescent_light_bulb>

momentary switch
provides a controlled interruption in a circuit for as long as its button is held down.
<https://en.wikipedia.org/wiki/Switch>

multiplicative inverse
the product of something and its multiplicative inverse is 1.
<http://www.coolmath.com/prealgebra/06-properties/09-properties-multiplicative-inverse-01>

operator
the symbolic representation of an operation.
[https://en.wikipedia.org/wiki/Operator\_(programming)](https://en.wikipedia.org/wiki/Operator_%28programming%29)

radian
unit of angle measurement.
<http://www.mathsisfun.com/geometry/radians.html>

reciprocal
one divided by something.
<http://www.mathsisfun.com/reciprocal.html>

relay
an electrically controlled switch.
<https://en.wikipedia.org/wiki/Relay>

resistor
produces a drop in voltage.
<https://en.wikipedia.org/wiki/Resistor>

sensor
has a predictable electrical response to some physical condition.
<https://en.wikipedia.org/wiki/Sensor>

solder
an alloy of tin and other metals (often lead) used to make semi-permanent electrical connections.
<https://en.wikipedia.org/wiki/Soldering>

solderless breadboard
a device for making temporary circuits.
<https://learn.sparkfun.com/tutorials/how-to-use-a-breadboard>

switch
provides a controlled interruption in a circuit.
<https://en.wikipedia.org/wiki/Switch>

variable
something that can change value.
[https://en.wikipedia.org/wiki/Variable\_(mathematics)](https://en.wikipedia.org/wiki/Variable_%28mathematics%29)

variable
the name or symbol for specific data.
[https://en.wikipedia.org/wiki/Variable\_(mathematics)](https://en.wikipedia.org/wiki/Variable_%28mathematics%29)

while
used to specify the condition for repeating a loop.
<https://en.wikipedia.org/wiki/While_loop>