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)>

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)>

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)>

variable  
the name or symbol for specific data.  
<https://en.wikipedia.org/wiki/Variable_(mathematics)>

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