

# DESIGN, EXPLORE & BUILD

## A Mechanical Engineering Boot Camp

### **Module 1: Design/Build and 3D Printing Day**

Using Autodesk Inventor and a 3D printer, you will design and create a unique 3D model. You will also see how you can improve its shape.



### **Module 2: Let's Make Our Own Products**

Go from making things in the cyber world to making things in the real world. You will use hand tools to form metals and make products that you can take and use at home.



### **Module 3: Crash Course on Robotics**

Develop your computational thinking skills by creating graphical algorithms, and then build and program functional robots using the LEGO EV3 robotics kit.



### **Module 4: Crash Course on Mechatronics**

Have you heard about mechatronics? Find out all about this exciting field, which combines robotics, electronics, computer, telecommunications, systems, control, and product engineering. You will use the Arduino Inventor Kit to build and program a mechatronic system.

