

## Did you know?

Electronic devices (phones, computers, TVs, etc.) require code to function. The process of coding allows humans to communicate with electronic devices. Coding acts as a translator and converts human input into numerical sequences that computers can understand.

There are different ways to learn how to code, including bootcamps, degree programs, self-guided resources (Treehouse, Code Academy, W3 Schools, Mimo), and massive open online courses.

Careers in coding include computer/software engineers, programmers, developers, and designers. Some majors that are good for going into the coding field include computer science, computer programming, information technology (IT), computer engineering, data science, and software engineering.

Coding can also play a role in fields like robotics. Makeblock uses coding techniques to allow students to create their own robots or mBots.

Other STEM Toys and Robot Kits can be found [here](#).



**Download brochure  
with links to  
resources**

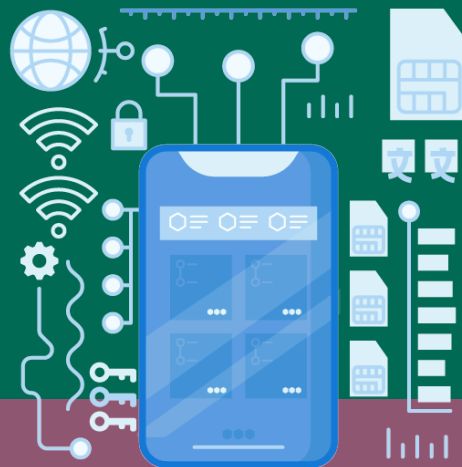
### Spotlight on Local Resource

## DigitalC

DigitalC is a nonprofit focused on bridging the digital divide. Its vision is to change the world one connection at a time by offering superior internet, accessible community space, and tailored digital skills training to ensure an equitable digital future.

DigitalC's Click program offers free digital skills training in-person or virtually. Locations include the Midtown Tech Hive, Kovaic Rec Center, UH Glenville, and online via Zoom. Topics of the training sessions include computer and internet fundamentals, productivity software, digital clinics, and more.

[www.digitalc.org/click](http://www.digitalc.org/click)



# Let's Explore

**Robotics: Computer Coding  
and mBot**

## Types of Jobs and Salaries

- Machine Learning Engineer / \$116,000
- Mobile Applications Developer / \$82,000
- Computer Programmer / \$97,000
- Software Developer / \$127,000
- UX Designer / \$78,000
- Software Engineer / \$92,000
- Data Engineer / \$96,000
- Web Developer / \$78,000

More information on types of jobs and salaries can be found [here](#).

## Local Employers

Akron Children's Hospital  
Applied Industrial Technologies  
CGI  
Cleveland Clinic  
Deloitte  
Goodyear  
FirstEnergy  
Hyland Software  
KeyBank  
Medical Mutual  
Nestle  
PNC  
Progressive  
Rockwell Automation  
Sherwin-Williams  
Signet Jewelers  
Steris  
University Hospitals  
Westfield  
Windstream



### Places to look for open jobs:

- [Indeed](#)
- [LinkedIn](#)
- [ZipRecruiter](#)
- [OhioMeansJobs](#)

## Opportunities for Deeper Exploration

### Cleveland State University Coding Bootcamp

Must be at least 18 years old and have a high school diploma or GED. Part-time and full-time programs available.

### Other CSU Tech Bootcamps

- Cyber Bootcamp
- Analytics Bootcamp
- DevOps Bootcamp
- Product Management Bootcamp

### Black Rocket Virtual STEM Summer Camps

Summer camps exploring 3D game design, AI, coding, video game design, animation, and more. Maximum age is 14.

### Youth Technology Academy

Earn college credit in a STEM-based career path while still in high school through this a one-of-a-kind program designed to train high school students for the technical workforce.

### Cleveland Codes Software Development Academy

14-week hybrid IT Fast Track Program. High school diploma/GED required to apply.

### Snapology

Snapology provides several interactive robotics classes and coding programs for children ages 3-14 using LEGO bricks. Students learn pseudo-coding, coding, robotics, and engineering principles.

### Tech Elevator

Coding bootcamps, in-person or online.

### Urban City Codes

Resource center in Cleveland Heights that offers in-person and virtual programs focused on coding, digital skills, cybersecurity, IT support, drone technology, and career readiness. To attend any of the programs, a high school degree or GED is required.

### Case Western Reserve University Bootcamps

High school diploma or GED required.

- Coding Bootcamp
- Data Analytics Bootcamp
- Cybersecurity Bootcamp

## Preparing for the Career

*Click on each one to learn more.*

### Cleveland State University

- Computer Science, bachelor's degree, master's degree
- Data Science, bachelor's degree
- Computer Engineering, bachelor's degree

### Cuyahoga Community College

- Information Technology Programs

### Case Western Reserve University

- Electrical Engineering, bachelor's and master's degrees
- Computer Science, bachelor's and master's degrees

### Greater Cleveland Partnership Tech Talent Career Portal

IT career portal that includes resources on different IT career pathways, programs and career conversations in the Cleveland area.

