



INTERNET OF THINGS (IoT)

PATHWAY



PATHWAY OVERVIEW

The Internet of Things (IoT) pathway helps students build knowledge and hands-on skills in computing, digital systems, problem solving, and technology innovation.

Through Introduction to Software Technology, Computer Science Principles OR AP Computer Science Principles, and Embedded Computing, students prepare for postsecondary education, industry credentials, and work-based learning experiences connected to the field.



CAREER CLUSTER

Digital Technology

COURSE SEQUENCE + WORK-BASED LEARNING

1

Introduction to Software Technology

Builds computational thinking and programming skills through algorithms, application design, debugging, and collaborative software projects.



2

Computer Science Principles OR AP Computer Science Principles

Explores computing systems, algorithms, data, networks, cybersecurity, programming, and the social impacts of technology.



3

Embedded Computing

Introduces connected devices, embedded systems, sensors, networking, automation, data analytics, and cloud-based smart environments.



Work-Based Learning (Capstone Experience)

Apply technical skills through internships, client projects, coding challenges, and workplace learning with technology partners.

LEADERSHIP + INDUSTRY CONNECTIONS

CAREER & TECHNICAL STUDENT ORGANIZATION



COMPETITION OPPORTUNITIES

- Coding & Programming
- Computer Problem Solving
- Technology Support and Services
- Networking Infrastructures
- Introduction to Programming
- Mobile Application Development



CHAPTER ACTIVITIES

- App or website challenge
- Coding workshop
- Technology showcase
- Digital portfolio
- Tech support service project
- Leadership conferences



CO-CURRICULAR / INDUSTRY EXPERIENCES

- FCS IT summer internship
- Industry tours
- Industry panel
- Client projects
- Job shadow
- Workforce readiness

SCHOOLS OFFERING THIS PATHWAY

Innovation Academy | Johns Creek

POSTSECONDARY OPPORTUNITIES



LOCAL / REGIONAL INSTITUTIONS

- Georgia Institute of Technology
- Kennesaw State University
- Atlanta Technical College
- Gwinnett Technical College



DUAL ENROLLMENT

Metro-area dual enrollment options may include computer science, cybersecurity, programming, cloud computing, networking, web development, game design, artificial intelligence, or related technology coursework; verify through Georgia Futures.



CAREER OPPORTUNITIES

CAREERS

IoT Technician

Embedded Systems Technician

Automation Systems Specialist

ATLANTA-AREA EMPLOYERS

SIEMENS



Honeywell

NCR VOYIX