Computers Information Technology

Description of Project:

4-H'ers may explore aspects of technology as it relates to computers and emerging technologies, such as smart phones, web-based technology, robotics, and other systems. Through this project 4-H'ers may:

- develop an understanding of the underlying principles and theories behind technological devices that are used to access, organize, transmit, and communicate information
- develop an understanding of the effects and impacts of computer technology on humankind and the environment
- promote knowledge of safe practices and procedures as it relates to computer information and systems
- acquire knowledge regarding efficient utilization of computer information tools in home, school, and industry
- increase awareness, concern, and knowledge regarding technology systems and their use in transmitting, receiving, and processing knowledge electronically
- explore career opportunities related to computer information technology

Examples of Project Development Experiences:

- Build a computer, install software, configure a server, and network your home devices
- Enroll in courses at school and online to develop computer skills
- Join the Georgia 4-H Communications and Technology Team and/or your local robotics team
- Program a video game or learn to write html code and design a website
- Interview a professional who works with computers and write a report on what you learned
- Program a robot to complete a task
- Acquire and read books, magazines, pamphlets, and online resources that related to topic
- Research the history and development of computer technology and programming

Georgia 4-H Project Achievement empowers young people with skills for a lifetime. Through a competitive process, students explore their interests, unleash their creativity, share their work, and celebrate their achievements! This guide provides 9th—12th graders with examples for getting started with their project exploration.
**Project Sharing and Helping Examples:**
- Teach internet and smartphone safety to peers and adults
- Lead a cyber-bullying prevention class
- Teach someone how to use an online software package
- Mentor youth on a software or programming team
- Take a robot you programmed to share at a local senior center or the library
- Organize a service project to recycle used technology
- Manage the social media group for your local 4-H club
- Demonstrate ways to use and care for computers and equipment
- Share what you have learned in the Computer Information Technology project with 4-H club members, school classes, civic clubs, and senior centers
- Exhibit a Computer Information Technology-related mini-booth at a fair
- Share helpful computer information materials at schools, libraries, and community events
- Mentor a 4-H'er in the Computer Information Technology project
- Lead a community club focusing on computer information technology

**Recommended Resources:**
- Georgia4h.org/ProjectAchievement
- Georgia4h.org/public/edops/techteam/
- gcflearnfree.org/subjects/technology/
- w3schools.com
-hourofcode.com/us/learn
- georgia4h.org/public/more/facsprojectsissues/Internet%20Social%20Networking%20Safety/internetsafety.htm

**Special Considerations:**
- Youth should practice internet safety. A best practice is to include a friend or parent in all communications and interactions.
- Give plenty of notice for any mentoring requests.
- Be aware of fraudulent information and double-check the facts in your presentation with credible sources.
- Youth should review business etiquette prior to shadowing a professional at work or engaging in a work-study or internship.
- Contact your local county Extension staff to discuss your plan for community involvement.

**At Competition:**
Computer Information Technology 4-H projects may use posters, artifacts, biofacts, and/or technology to support their presentation. The time limit for these presentations is 12 minutes. Computers, projectors, screens, and other technological devices may be used.

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**Sources:**
The University of Georgia CAES. 2016. Project Achievement. http://www.georgia4h.org/projectachievement/