**Employer:** **Location:**

**Position:** Software Engineering Intern **Term:**

**Preferred Majors:** Software Engineering or other engineering-related fields



**Expectations:** *Students will work in this internship to develop competencies and knowledge in* Computer Science *to enable them to better discern a career in this occupational area. Students will start by observing and learning and progress to executing tasks as directed by their supervisor. Students will be expected to meet the same criteria as full-time employees regarding a drug-free workplace, maintaining confidentiality, and meeting the requirements of their particular position in the hours employed. Employer will be expected to comply with providing a safe work environment according to the Occupational Safety and Health Administration (OSHA) and compliance with Federal and Ohio Minor Employment Laws if the student is under 18.*

**Responsibilities:**

The Software Engineer intern plans to pursue a degree in Computer Engineering, Computer Science, or equivalent. Software engineers design, develop, test, and maintain software applications. They use engineering principles and programming languages to create software solutions for users.

* Assists in the implementation and testing of new and existing software products.
* Implement and test user interface screens from specifications
* Implement and test routines and modules from specifications
* Assist in maintaining product and test documentation
* Reports to the Engineering Manager

**Desired Skills:**

* Wants to pursue a BS (or higher) in Computer Engineering, Computer Science, or equivalent
* Familiarity with object-oriented programming
* Familiarity with GUI construction or hardware/software interfacing
* Students interested in Engineering with an energetic interest in applying themselves to a wide array of projects.
* The ability to learn and understand applied engineering principles in both office and field under varying conditions.
* Strong attention to detail
* Possess strong time management skills
* Ability to work outdoors (exposure to inclement weather)

**Educational Goals:**

* Exposure to tech support, coding, and networking professionals.
* Learn components of commonly-used computer hardware, software, applications, etc. and the ability to diagnose customer problems and provide troubleshooting and issue resolution support.
* Become familiar with the use of computers, infrastructure, and peripheral devices and some knowledge of how to assemble, configure, install, maintain, and repair basic, commonly used and systems.
* Gain networking tools and concepts with the ability to apply commonly-used networking tools/devices (e.g., routers, Ethernet, firewalls, frame relay, LAN, VPN, and WAN) and network security techniques and tools (e.g., encryption technology, wireless support, cloud services, and proxy servers).
* Learn multiple end-user software packages and cloud solutions such as MS Office or Google Docs.
* Learn core coding languages and learn to write code that can be read and maintained by others.
* Learn to integrate data storage libraries, methods, interfaces, and objects using debugging techniques.
* Develop active listening, service orientation, critical thinking, judgment, and decision-making skills.