

Ahmed Nageeb

Summer Internship 2024

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Summary

Quick-learning Electrical Engineering student with a focus on Embedded Systems and Cybersecurity. Passionate about troubleshooting, problem-solving, and real-time systems design. Skilled in C programming, hardware repair, and embedded software development, with hands-on experience in microwave board software and motor control systems. Seeking an Embedded Systems Internship to contribute to the design, testing, and debugging of advanced systems.

Technical Skills & Experience

- **Embedded Systems Programming:** Proficient in C for embedded systems | Memory management | Pointers | Sensor libraries | Communication protocols (I2C, UART, SPI) | FreeRTOS.
- **Microcontrollers:** Hands-on experience with Arduino, ESP32 (Wroom, NodeMCU), STM32 (STM32F401RCT6) | Continuing to learn AVR family (Atmega32A).
- **Troubleshooting & Repair:** Expertise in troubleshooting electronic systems (microwave control boards, TVs, Android phones) | Power electronics (DC-AC inverters, motor control).
- **Power Electronics:** Designed a 1.5 kW 3-phase inverter for pump control | Working on a 12V DC to 220V AC pure sine wave inverter.
- **Motor Systems:** Experience in troubleshooting and redesigning DC/AC motors (fans, pumps, power tools) | Recoil motor repair.

Networking & Cybersecurity Skills

- **Computer Network Essentials Intern.:** (36 hours, Creative IT): Knowledgeable in networking fundamentals (LAN, WAN, MAN, device interaction) | Network devices (hosts, servers, clients, switches, routers, firewalls) | Network configuration (device identification, network settings) | Network media (copper wires, fiber-optic, wireless transmission) | Communication protocols (TCP/IP, data transmission) | Internet, intranet, extranet (LAN/WAN connections, studies) | Network architecture (fault tolerance, scalability, QoS, security).
- **Ethical Hacking Course:** (Mahartech Site): Skills in vulnerability assessment | Network security tools | Password cracking | Social engineering | Wi-Fi security.
- **NTI Intern., Cisco CyberOps:** Proficient in security concepts | Incident response and handling | Security monitoring and analysis | Network intrusion detection and prevention | Security architecture and design | Threat intelligence and analysis | Malware analysis and reverse engineering | Vulnerability assessment and management | Security policy implementation and compliance | Risk assessment and mitigation strategies | Understanding of security frameworks (NIST, ISO) | Familiarity with security tools (SIEM, IDS/IPS) | Knowledge of SOAR (Security Orchestration, Automation, and Response) for enhancing incident response efficiency and effectiveness.

Soft Skills & Voluntary work

Co-founder, PentaCoders: Developed leadership, crisis management, and negotiation skills through team management and securing venues.

Public Relations, UCCD: Organized annual job fairs, honing communication, event planning, and organizational skills.

Public Relations, HackerRank Project: Negotiated with speakers, managed logistics, and handled event coordination.

Education

Education Bachelor of Electrical power engineering 2020-2025

Projects

[GitHub Repo](#)