Ahmed Nageeb

Summer Internship 2024

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Summary

Quick-learning Electrical Engineering student with a passion for troubleshooting and problem-solving. Possess strong hardware knowledge gained through repairing electronic systems and boards. Proficient in C programming with experience in developing microwave board software. Eager to leverage skills in an Embedded Systems Internship to contribute to the design, testing, and debugging of real-time systems.

Technical Skills & Experience

- **Embedded Systems Programming Language:** Strong C programming for embedded systems | Memory management | Pointers Experienced embedded libraries for sensors | communication Protocols. | FreeRTOS.
- **Microcontroller Familiarity:** Arduino | Esp32 like Wroom | NodeMCU | STM like STM32F401RCT6 | Continuing to learn AVR Family on Atmega 32A | Still learning.
- **Electronic System Troubleshooting:** Troubleshooting Electronics systems |Microwave Control Board, Tv and Android Phones.
- **Power Electronics Troubleshooting:** inverter 3-phase for a 1.5 kW pump Designed | built a 12V DC to 220V AC pure sine wave inverter (ongoing project).
- **Motors Troubleshooting:** DC/AC motor troubleshooting Motor repair/redesign (recoil, fans, pumps, power tools).

Soft Skills & Voluntary work

Co-founded PentaCoders leadership, crisis management, and negotiation skills through team management and securing venues.

PR in HackerRank project experience: Negotiation, speaker acquisition, logistics management

Education

Education Bachelor of Electrical power engineering 2020-2025

Relevant Coursework:

- Logic 1 (C programming& Pointers - Digital Electronics) | Microprocessors (Assembly 8085)
- Mechatronics (Forward and Inverse Kinematics – ROS- Image Processing) | Electronics 1 (Mosfet-BJT)
- Electronics 2 (Op-Amp) | Power Electronics 1(AC Controller) | Power electronics 2 (Dc controllers and converter) |Control 1 (Actuators – sensors -PID Control)

Projects

https://github.com/amnh30/C-programs