Edward D. Ng, Jr.

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Education

Bachelor of Science in Computer Engineering   May 2019
New Jersey Institute of Technology, Newark, NJ

Bachelor of Science in Physics   May 2015
The College of New Jersey, Ewing, NJ

Relevant Courses

- Digital Design
- Programming Language Concepts
- Computer Organization and Architecture
- Computer Engineering Design Lab
- Microprocessors
- Principles of Operating Systems
- Digital Systems
- Advanced Computer Architecture

Skills

Technical: Proficient with C++, Java, VHDL, ARM, and Microsoft Office
Foreign Language: Limited working proficiency in Tagalog, elementary proficiency in Spanish

Projects

Annunciator
- Utilized FRDM-KL25Z microprocessor to simulate an alarm system for a storage tank to alert users if the tank was full or overflowing
- Programmed the alarm system for the simulated storage tank using ARM

Water Level Sensor
- Used C++ to detect the water level of a body of water through an Arduino board
- Utilized an ESP8266 board to send alerts to the user's phone if the water level fell outside of an acceptable range

Work Experience

Part-Time Teacher   February 2016 – Present
Huntington Learning Center, Englewood, NJ
- Assists middle and high school students in math and physical sciences
- Tutors students in SAT and ACT math to increase clients' score

Substitute Teacher   February 2015 – May 2015
Montgomery Township School District, Skillman, NJ
- Managed middle and high school classes across all subject areas

Leadership Experience

TCNJ Asian American Association   May 2015
President

TCNJ Chinese Yo-Yo Club   May 2015
President