Thach Nguyen
Software design engineer

Voorhees, NJ - Email me on Indeed: <u>indeed.com/r/Thach-Nguyen/651c0f8b5b4190b7</u>

Seeking employment as a software development, systems or test engineer with an electronics or computer company.

WORK EXPERIENCE

Software design engineer
L-3 Communications East   -   Camden, NJ - 1982 to March 2012

Notable accomplishments in chronological order:
• Optical Disk Jukebox - Performed as a sole engineer: designed and implemented embedded C code to move optical disk between various slots and the disk drive.
• Secure Terminal Equipment (STE) - Designed and implemented embedded C code to buffer, initiate and move data and voice traffic between RS-232 serial port and Crypto card memory. With Certicom Corporation API implemented Non-Type I Elliptic Curve Cryptography (ECC) to encrypt and move MELP voice traffic between RS-232 serial port and PSTN network processor memory. The SCIP 210 signaling plan was used for call negotiation.
• Advanced Extremely-High-Frequency COMSEC/TRANSEC System Key Management Architecture (ACTS KMA) - Designed and implemented GUI, database using C, C-Shell script, SQL, and Oracle PL/SQL in UNIX environment and included development of software design document (SDD) using MS-Word. Performed systems level test (SLT) using simple key loader (SKL) device to register/endorse equipment and distribute keys to equipment. Coordinated between manager key translation element (KTE) and non-SOC KTE to initialize KMA system.
LANGUAGES/TOOLS: C, SQL, Oracle PL/SQL, Familiarity with C++ and Java, Understand C/C++, ClearCase, ClearQuest, CMMI Level 3 Process
SECURITY CLEARANCE: US Citizen, DoD Secret

Hardware test engineer
Singer Links   -   Silver Spring, MD - January 1981 to December 1981

Hardware test engineer

Digital hardware design engineer
NCR   -   Ithaca, NY - March 1980 to December 1980

Assist in the design of printer control device

EDUCATION

M.S. in Systems Engineering
University of Pennsylvania
1985

B.S. in Electrical Engineering
Pennsylvania State University
1980