

# Jason Nguyen

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## EDUCATION

University of New Haven

August 2024

*B.S. Electrical Engineering*

*West Haven, CT*

- **Relevant Courses:** Senior Capstone Design: Honeywell Fire-Lite • Embedded Systems: Microcontrollers • Electronics I and II • Analog Circuits: Analog Circuit Design • Project Management • Random Signal Analysis • Digital Systems: Logic Design and Hardware Programming • Intermediate Programming C and C++

## SKILLS

- **Electrical Engineering/Design:** KiCad: PCB Schematic Design • SolidWorks/Fusion360: CAD Design & Simulation • Multisim: Circuit Simulation • LabVIEW: Simulation/Test Systems • MATLAB: Data Analysis
- **Software Development:** mikroC Pro: ARM C-Programming • Xilinx: FPGA Programming • Arduino IDE: Arduino Microcontroller Programming • Bash Scripting: Unix Operating Systems (Arch Linux, Debian) • Python, C++, C, and Java Programming • VSCode: Multilanguage IDE • Github
- **Data Management and Reporting:** Microsoft Office: Excel, PowerPoint, Word, Teams
- **Equipment Skills:** Oscilloscope: Operation and Maintenance • Multimeter: Operation • FDM/SLA 3D Printers: Operation, Repair, Construction/Assembly • Soldering: Through hole and SMD.

## PROJECTS

- **Honeywell Fire-Lite Regulated NAC Tester**
  - Design and construct a refreshed production ready **Regulated NAC Tester** for Honeywell to replace a legacy proprietary device. Requires a custom PCB and well-documented schematics for future calibration and repairs.
- **Embedded Systems Security System Model**
  - Develop a Functional Security System on a FPGA, utilizing Xilinx to program a development board to allow for user input and visual/audio feedback.
- **Children's Fully Autonomous Toy Car**
  - Design and market an **Autonomous Toy Car** that uses an Arduino microcontroller to control the movement of a toy car and detect obstacles using an ultrasonic distance sensor.

## WORK EXPERIENCE

Target

May 2021 – Present

*Tech Consultant*

*South Windsor, CT*

- **Target Corporation** is a Retail chain of Department stores around the United States. As a **Tech Consultant**, I am responsible for the day-to-day operation of the Electronics Department
- **Customer Service and Sales**
  - Identify customer needs and recommend appropriate products and solutions, driving sales and enhancing the customer experience.
  - Assist in managing inventory levels, ensuring accurate stock counts, and organizing product displays to maximize sales opportunities.
- **Product Knowledge and Training**
  - Maintain up-to-date knowledge of the latest technology products and trends, ensuring accurate and informed customer consultations.

Kumon Math and Reading

May 2017 – June 2018

*Math and English Tutor*

*South Windsor, CT*

- **Math and English Tutor**
  - Provided one-on-one tutoring sessions in Math and English, catering to students at various age-groups and skill levels, Grades 1-12.
  - Provided guidance and recommendations to parents on how to support their children's learning at home.

- As a **Corporate Trainer** for **CT Business Consulting**, I was tasked with Training and overseeing the day-to-day activities of Team Members.
  - Acted as the primary point of contact for clients, addressing their needs, concerns, and inquiries promptly.
  - Coordinated with internal teams and external stakeholders to ensure seamless project execution and successful outcomes.

## **CERTIFICATIONS & INTERESTS**

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- **Certifications:** FCC Licensed Amateur Radio Operator [W1LSD](General Class)
- **Interests: Hobbies and Personal Projects**
  - **Licensed Amateur Radio Operator:** (General Class) and UNH Amateur Radio Club Co-Founder
  - **PC Computer Hobbyist:** Building, Modification, Repairs, and Custom Water-Cooling
  - **3D Printing Enthusiast:** 3D Modeling, **FDM** and **SLA** 3D Printing, 3D Printer Repairs
  - **Home Lab Network Management:** Home Network Automation and Server Administration. (Proxmox, Docker, Home Automation, IOT)
  - **DIY Projects:** Woodworking and **STEM IOT** projects (Raspberry Pi, Arduino)