

Jason Nguyen

jason.nguyen32@outlook.com ❖ (860) 328-4156 ❖ Thomaston, CT ❖ <https://jason.pancake3d.com>

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

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**
 - Design and Program 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 Program 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

Champions Skating Rink

August 2024 – Current

General Technician

Cromwell, CT

- **Champions Skating Rink** is a local ice-skating facility providing recreational and competitive skating programs. As a General Technician, I am responsible for maintaining the ice rink's operational functionality, including ice resurfacing and electrical systems. Customer Service and Sales
- **Ice Resurfacing and Maintenance**
 - Operate and maintain the ice resurfacing machine (Zamboni) to ensure a smooth and safe ice surface for skaters.
 - Perform routine maintenance and repairs on the Zamboni and other ice-related equipment.
- **Electrical Systems and Repairs**
 - Troubleshoot and repair electrical issues within the facility, including lighting, sound systems, and other equipment.
 - Assist in the installation and maintenance of new electrical systems as needed.
- **Building Maintenance and Repairs**
 - Perform general building maintenance and repairs, such as painting, plumbing, and carpentry.
 - Identify and address safety hazards to ensure a secure environment for staff and patrons.

Target

May 2021 – August 2024

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.

CT Business Consulting

May 2019 – July 2019

Corporate Trainer

Hartford, CT

- 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

- **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 Management