

# Ryan Phrasixiengmay Vorachak

2 Tannery Ln, Lebanon NH | (603) 443-7586  
rpv1003@usnh.edu | LinkedIn: Ryan Vorachak

## EDUCATION

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**University of New Hampshire - Durham, New Hampshire**

**August 2021 - May 2025**

*Bachelor of Science: Computer Engineering*

## RELATED EXPERIENCE

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**SubCom - Newington, New Hampshire**

**March 2025 – September 2025**

*Test Software Engineer - Intern*

- Reverse-engineered an optical signal routing module, documenting schematics in Visio; developed GUIs in C and Python to communicate to a TCP server in SCPI command format, simulating test set instrumentation
- Converted and optimized instrument driver code in C as part of test software porting from Linux to Windows; extended instrument driver software to communicate over ethernet

**SubCom - Newington, New Hampshire**

**June 2024 - August 2024**

*Test Software Engineer - Intern*

- Integrated new test software using NI LabWindows CVI and NI TestStand, in conjunction with test set instrument drivers; multithreaded legacy code, resulting in a 60% decrease in test runtime
- Troubleshoot startup of electro-optical test stations for fiber optic signal amplifiers and modems; handled fiber optics through a 3-step process of stripping, cleaning, and cleaving

## SKILLS

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**Computer Languages:** C (Standard libraries & NI LabWindows CVI code libraries), C#, C++, Java, Python, Shell Script, Verilog, MATLAB, Assembly, SQL, PHP

**Software:** Microsoft 365 (Excel, Word, Visio), GitHub, GitLab, LabWindows CVI, TestStand, Visual Studio Code, PyCharm, IntelliJ IDEA, MATLAB, Godot 4.3, Adobe CC (PS, PP, LR)

**Laboratory Skills:** Signal Modulation, Software Development, Electronic Circuit Design, Signal Processing, PCB Design, Algorithm Coding, Field Programmable Gate Arrays, Computer Hardware Design, Team Collaboration, Adaptability

## RELATED COURSEWORK

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| • Intro to Digital Signal Process (Signal Mod & MATLAB)      | • Electromagnetic Fields & Waves (Physics & Calculus) | • Signals & Systems I & II (Signal Mod & MATLAB)     |
| • Fundamentals of Communication Systems (Physics & Calculus) | • Designing with Programmable Logic (Verilog & FPGAs) | • Computer Organization & System Lvl Programming (C) |

## ADDITIONAL EXPERIENCE

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**Dartmouth Health | DHMC - Lebanon, New Hampshire**

**June 2022 - January 2024**

*Food Service Attendant - Host*

- Facilitated patient tray delivery and retrieval, ensuring timely and accurate distribution of meals to over 300+ patients; assisted both patients and nurses with menu requests and dietary needs

*Food Service Attendant - Tray Line / Sanitation*

- Exercised positive team building with a team of ~8 through assembly of patient trays; focused on delivering presentable food in an efficient manner; time management for a strict 1 hour 30 minute completion

**Samosa Man - Hanover, New Hampshire**

**July 2019 - November 2021**

*Delivery Driver/Farmers Market Assistant*

- Led in production and sales of food at 2 local farmers markets, specializing in customer communications and bartering; managed food production and quality assurance

**Phnom Penh Sandwich Station - Lebanon, New Hampshire**

**October 2019 - March 2020**

*Cashier*

- Processed customer orders in collaboration with a kitchen staff of 2; performed production of fried foods and drinks, and packaged foods and handled customer needs such as bagging and food modifications