



# Thomas Bernabe-Bacilio

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## EDUCATION

Aspiring Undergraduate Student Seeking to Serve to Learn and to Grow

### North Carolina State University

*B.S. Computer Engineering*

Raleigh, NC

*Graduation: May 2024*

Cumulative GPA: 3.3/4.0

**Relevant Coursework:** Signals and Circuit Systems, Computer Systems Programming, Logic Design, Data Structures and Object Oriented Programming (Spring '23), Introduction to Embedded Systems (Spring '23), Microelectronics (Spring '23)

**Honors and Awards:** Dean's List (Spring '21 - Spring '22)

## RESEARCH AND EXPERIENCE

### LAMP Data Server Project — NCSU

*Undergraduate Researcher*

Raleigh, NC

*September 2022 – Present*

- Created a Logger structure using Swift to log messages about the ARoSClinical application's behavior
- Designed and developed an API using Python for submitting log reports to the server
- Track sources of upload errors, data errors, and file i/o errors

### Embedded Machine Learning Club — NCSU

*Programming Student*

Raleigh, NC

*August 2022 – Present*

- Attending Python training workshops to further develop abilities in Python programming
- Completed weekly exercises and semi-weekly projects to further develop problem-solving
- Introduced to fundamental Machine Learning Concepts

### Southeast Raleigh YMCA

*Membership Engagement Specialist*

Raleigh, NC

*August 2022 – Present*

- Communicate with customers effectively in-person to ensure that membership issues were resolved
- Conducted tours and follow-up meetings with new members to guarantee member satisfaction
- Managed financial transactions between members and the front desk

## PROJECTS

### Caesar Cipher | [GitHub](#)

- Created using C; Asks the user to input a string and a digit for the key. Awaits input to cipher or decipher the string
- Once input is given, the corresponding function is called with the message and key being the parameters
- A for loop iterates through one character at a time, ignoring any non alphanumeric input and shifting said character by the desired amount
- The ciphered/deciphered message is then printed out for the user

## SKILLS

**Software:** C, C++, Python, MATLAB, Verilog, HTML/CSS, Assembly Language

**Developer Tools:** Git, VS Code, CLion, Docker

**Languages:** Native/Bilingual Proficiency in Spanish and English

## LEADERSHIP AND INVOLVEMENT

### Society of Hispanic Professional Engineers (SHPE)

*Financial Officer and Mentor*

Raleigh, NC

*August 2021 – Present*

- Interact with various students from different backgrounds gaining academic, personal and professional skills
- Expand new social and communication abilities through team workshops
- Oversaw Chapter growth from around 40 members to over 80 members within one year

### Lambda Theta Phi Latin Fraternity Inc.

*Administrative Officer*

Raleigh, NC

*November 2022 – Present*

- Take notes throughout weekly executive board meetings
- In charge of external and internal communication
- Maintain an organized an organized Google drive for the chapter