# Brendan M. Michaud

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## Education

University of Massachusetts Lowell, Lowell, MA
Bachelor of Science in Computer Science        Anticipated December 2021
**GPA 3.9**

*Enrolled in Spring 2021 – Computer Science Related*
- Linear Algebra 1
- Foundations of Computer Science
- Data Communications 1

Northern Essex Community College, Haverhill, MA
Associate of Science in Computer Science        May 2019
**Dean's List All Semesters - GPA 3.8**

## Technical Skills:

- Java - NetBeans IDE, IntelliJ IDEA
- Data Structures
- C and C++ - Cloud 9 IDE, QT, Clion
- Linux, GNU, SSH/Putty
- Computer Security / Encryption Methods
- Assembly – PIC, Arduino
- Virtual Machine Installation
- Headless FreeNAS installation
- Basic Image Processing

- Exposure to MATLAB
- Python
- Engineering Essentials
- Basic AC, DC and Digital circuits
- Schematic layout and simulation
- Digital Logic
- Operating Systems

## Projects

- Designed a machine learning, object-oriented program modeled after 20 questions game (in Java). Guessed user's "thing" based on yes and no questions. If user's "thing" was not found user could add it. Used Binary Search Tree to store data.
- Developed an application (in assembly) using the PIC micro-controller. User provided inputs through keyboard and results were displayed on two 7-segment displays.
- Developed "Simpletron", a microcomputer simulator (in C). User provided binary machine language microcode inputs in an array of registers. Project used extensive pointer manipulation. "Simpletron" operation was confirmed against known test cases.
- Designed a physical representation of a microcomputer. Demonstrated the model using presentation to peers in class. Used cups to represent registers and balls to represent bits.
- Created an embedded real time Arduino based garage depth sensor to indicate how close cars are to the wall. Uses ultrasonic sensor to collect data and LED to indicate distance from wall.
- Created in Python a group application which implemented a secure peer to peer file transfer method. Used Encryption and Decryption methods to stored user data and files securely.

## Work Experience

Lucci's Supermarket Wilmington, MA        2014 to 2017
Kitchen Staff / Bagger
Responsibilities include:
- Preparing prepared meals
- Cleaning kitchen equipment
- Assisting customers and collecting carts

## Certifications

- OSHA 10-hour safety certificate        2015