

Brendan M. Michaud

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Education

University of Massachusetts Lowell, Lowell, MA
Bachelor of Science in Computer Science
GPA 3.8

Anticipated December 2021

Enrolled in Fall 2020 – Computer Science Related

- Operating Systems
- Intro to Computer Security
- Graphical User Interface Programming I

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

May 2019

Technical Skills:

- Java - NetBeans IDE, IntelliJ IDEA
- Java - Data Structures
- C and C++ - Cloud 9 IDE, QT, Clion
- Linux, GNU, SSH/Putty
- Information Security / Encryption Methods
- Assembly – PIC, Arduino
- Virtual Machine Installation
- Headless FreeNAS installation
- Image Processing
- Exposure to MATLAB
- Exposure to Python
- Engineering Essentials
- Basic AC, DC and Digital circuits
- Schematic layout and simulation
- Digital Logic

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 microcontroller. 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.

Work Experience

Lucci's Supermarket Wilmington, MA
Kitchen Staff / Bagger
Responsibilities include:

2014 to 2017

- Preparing prepared meals
- Cleaning kitchen equipment
- Assisting customers and collecting carts

Certifications

- OSHA 10-hour safety certificate

2015