Amelia Trevino

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Engineering student pursuing an Electrical Engineering and Computer Science Bachelor's degree seeking internship opportunities to gain hands-on experience. I have an immense love for anything technology. When I'm not working or doing school, I like to learn different programming languages, work on different Arduino projects, soldering, and playing video games.

EDUCATION

Bachelor of Science: Electrical Engineering & Computer Science
Texas A&M University Kingsville • Kingsville, Tx

- 3.70 GPA
- Dean's List Honoree: Fall 2019, Spring 2021, Fall 2021
- Expected Graduation: May 2024
- President's List Honoree: Spring 202
- **Scholarships:** Academic Excellent Award Recipient and Diana Cardenas College of Engineering
- **Extracurricular Activates:** President for Association for Computing Machinery (ACM) & Member for Institute of Electrical and Electronics Engineers (IEEE)

EXPERIENCE

Engineering Tutor | 08/2021 – Current
Texas A&M University Kingsville – Kingsville, TX

- Offered academic support in various subjects outside classrooms.
- Tutored students in various subjects to improve classwork and grades.
- Subjects: Calculus, Physics, All Electrical Engineering courses, Computer Science courses

REFLEX-ME Research | 6/2022
Research, Education and Financial Literacy Excellence for Minority-focused Engagement – Remote

- Research topic: Data Analysis of COVID-19 Impact on Global Supply Chain and Employment
- Using data analysis (python) we will find the trends of multiple components that lead to the global supply chain failing.

SKILLS

- Great Collaboration /Teamwork
- Adaptable
- Great Communication
- Creative Thinking
- MS: Office, Word, Excel, PowerPoint
- MS Visual Studio / Code
- NI-ELVIS board /Software
- Arduino/Raspberry Pi
- DE1-SoC Development Board
- HCS12 Dragon Light development board

PROGRAMMING LANGUAGES

- C: Intermediate
- C++: Intermediate
- Python: Intermediate
- HTML/CSS: Beginner
- VHDL: Beginner

RELATED COURSES

- Introduction to Computer Science
- Object Oriented Software Eng.
- Data Structures & Algorithms
- Software Engineering, I & II
- Computer Graphics
- Microprocessor Systems
- Network Analysis, I & II
- Circuits and electronics
- Digital Systems Engineering

PROJECTS

C++ ATM System

- ATM system which allows a user to check balance, cash withdraw, user details, and update mobile number. There is already a set user (user 1) with default data to use as a base case.
- Object Oriented Programming concepts such as classes and objects, while using functions and other C++ basic concepts.
- https://replit.com/@treviame/ATM-system

Visual Studio GUI for TAMUK Courses Database

- Used Microsoft SQL to import TAMUK course information and compiling it into a database.
- Connecting the SQL database to an Graphical User Interface (GUI) which allows users to search for a class using CRN # and determine the subject, course, and location. User was also able to add or delete a course.

C++ Raspberry Pi Mobile Robot Localization

- My group and I programmed a Raspberry Pi in C++ to implement mobile robot localization using a laser-based sensor (LIDAR). The robot was able to plan a path following a certain trajectory line while being able to generate motion controls such as acceleration and different speeds.