Melina Dominique Moore

www.linkedin.com/in/melina-moore-52515b24b
Phone: (832) 314-9901
Email: mdmoor21@cougarnet.uh.edu

Summary: Computer engineering student with experience in creative problem-solving, pursuing a co-op or full-time role to gain technical knowledge and work with a team to deliver innovative solutions for complex business problems.

Education

University of Houston   *Graduation: Spring 2025*
Bachelor of Science - Computer Engineering   GPA: 3.4/4.0
Current Relevant Courses: Digital Electronics, Embedded Microcomputer Systems

Projects

STEMINISTS Website   *February 2024 - June 2024*
Project Lead with Code [Coogs]
- Managed a team of seven to develop a website honoring women in STEM using HTML, CSS, and JavaScript.
- Directed and mentored all team members to each create unique STEM themed games
- Established weekly meetings to meet project timelines and foster a cohesive team environment, resulting in a successful and fully functional site

Diesel Generator Monitoring Device   *February 2024 - May 2024*
- Designed and implemented using RTOS and TI Launchpad, integrating GPIO sensors and real-time alarms to detect and alert for failure modes such as fuel depletion and radiator leaks.
- Collaborated and debugged throughout the semester to deliver a functional prototype and comprehensive documentation, while improving teamwork and version control through GitHub.

Coffee and Tea Level Indicator   *August 2023 - December 2023*
- Designed using Multisim, debugged and built a circuit to indicate liquid levels in large containers of coffee and tea, adapting a pre-existing schematic for different beverage resistivities.

MATLAB App Design - History of Water Contamination in Hinkley, California   *February 2022 - May 2022*
Project Lead
- Developed an object-oriented program in MATLAB to create several interactable components
- Collaborated in a group to create an app about water contamination levels, in which I advanced skills in user interface and data cleaning techniques

Work Experience

Cullen College of Engineering Undergraduate Program   Houston, TX   *August 2022 - Present*
Teaching Assistant
- Instructed over 300 students through difficult concepts to develop code using MATLAB
- Learned to swiftly adapt by tailoring instructions to each individual students' needs in weekly office hours
- Increased the course pass rate by 16% through one-on-one tutoring and peer support

Cullen College of Engineering Undergraduate Program   Houston, TX   *August 2023 - Present*
Curriculum Development Specialist
- Developed an engaging curriculum for Introduction to Computing and Problem-solving for Engineers with Dan Burleson to help students learn through coding games in MATLAB language and app design
- Revived students' passion for engineering and problem-solving through creative coursework

Leadership Experience

Code [Coogs] - *Activities Director*   *June 2024 - Present*
- Arranged weekly social events, increasing the membership by 25%

STEM Honors Society - *Member and Grant Recipient at Galveston College*   *January 2018 - July 2019*
- Achieved recognition from the STEM Honors Society as both a scholarship and research grant recipient

Rotary International - *Student Ambassador in Três Lagoas, Mato Grosso Do Sul, Brazil*   *August 2016 - June 2017*
- Gained skills in communication and adaptability while living abroad in Brazil

Skills and Proficiency

- Fluent in English and Spanish
- MATLAB (Advanced)
- C++ and C (Advanced)

- HTML, CSS, JavaScript (Advanced)
- ARM Assembly (Intermediate)

- SimUAid (Intermediate)
- Python (Intermediate)
- R (Beginner)