

# Maria Myers

linkedin.com/in/maria-dmit  
github.com/dmimar382

dmimar382@gmail.com  
(979)-446-5230

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## TECHNICAL SKILLS

**Programming Languages:** Python, C/C++, MATLAB, Verilog, LabVIEW  
**Tools:** Machine Learning, Linux, AR-VR Tools, Soldering, 3D-printing, LaTeX  
**Embedded System:** Microcontrollers, FPGA, Arduino, Raspberry Pi, NVIDIA Jetson  
**Design:** Altium, Circuit building, SolidWorks, MultiSim, LTspice, ETAP

## WORK EXPERIENCE

### Instrument Engineer

*ExxonMobil Technology & Engineering Company*

Spring, TX  
01/22 – current

- Leading development of onshore command center for 4 Guyana FPSOs that will reduce operating costs and support remote operations and reliability.
- Implementing R&D & robotics applications for plant optimization and automation to decrease safety related incidents and increase capital gain from plant operation.
- Supporting plants through evaluating new instrumentation technology to increase plant diagnostic and maintenance scheduling capability.

### Senior Design Project Manager

*Texas AM University sponsored by Department of Defense*

College Station, TX  
01/21 – 12/21

- Manage project timeline and lead communication between team and DOD sponsors.
- Designed, populated and validated a PCB sensor matrix that detects fallen object and displays its location.
- Programmed Atmega328 MCU to communicate via Bluetooth with android application.

### Electrical Engineering Intern

*Houston Mechatronics*

Houston, TX  
06/21 – 08/21

- Decreased time drift by a factor of 4 on the Aquanaut by integrating a Real Time Clock module with main computers.
- Designed and populated PCB breakout board using Altium for Aquanaut computers' testing assembly.
- Created, simulated and built power circuit for Aquanaut computer testing assembly platform, allowing for a low-cost power solution.
- Created internal wiring and cable diagrams for Aquanaut computer power and communication systems using Visio software.

### Electrical Engineering Co-Op

*Olin Corporation*

Freeport, TX  
08/19 – 12/19

- Created electrical power system simulation for Chlorine plant using ETAP software enhancing safety, maintenance procedures, and reducing operation cost.
- Initiated collaboration improvements within electrical team by introducing and implementing Microsoft Teams into daily operations.
- Conducted Relay Coordination study for Chlorine plants.

## PROJECTS & HACKATHONS

### SpaceCRAFT VR Hackathon at SXSW

*Third Place Finalist*

03/19 - Austin, TX

- Developed a machine learning algorithm using TensorFlow to traverse an extra-terrestrial planet with a rover in a Virtual Reality simulation that achieved 98% accuracy.

## RELEVANT COURSEWORK

**Computer Science:** Directed Studies-Robotics{CSCE 485}, Programming Studio{CSCE 315}, Intro to Computer Systems{CSCE 313}, Data Structures and Algorithms{CSCE 221}, Discrete Structures for Computing{CSCE 222}, Programming Design and Concepts{CSCE 121}

**Electrical Engineering:** Digital Integrated Circuit Design{ECEN 454}, Senior Design Lab{ECEN 403/404}, Linear Control Systems{ECEN 420}, Microprocessor System Design {ECEN 449}, Computer Architecture and Design{ECEN 350}, Signals and Systems{ECEN 314}, Electronic Properties of Materials{ECEN 370}, Electronics{ECEN 325}, Random Signals and Systems{ECEN 303}, Digital System Design{ECEN 248}, Electrical Circuit Theory{ECEN 214}

## EDUCATION

**Texas A&M University, College of Engineering**

*B.S. Computer Engineering*  
*HKM Honor Society*

GPA: 3.96/4.0  
L<sup>A</sup>T<sub>E</sub>X