Misael Marquez

Fort Smith, AR 72916 misaelsmarquez@gmail.com

OBJECTIVE

Mechatronic engineer seeking opportunities to bring the future to the present by elevating the engineering industry.

EDUCATION

Vaughn College of Aeronautics and Technology, Flushing, NY May 2022

Bachelor of Science, Mechatronic Engineering, GPA 3.79

SKILLS

Soft: Team worker, Problem-solver, Leadership, Analytical, Organized, Motivated

Computer: Microsoft Office Suite (Word, Excel, PowerPoint), SolidWorks, CATIA, Multisim, Xilinx, Cura, Simulink, CSS, HTML, MATLAB, C++, RobotC, Python, Arduino, Structured Text

Language: Fluent in English and Spanish

Technical: Hand tools, power tools, soldering, caliper, micrometer, multimeter, 3D Printers

LEADERSHIP & CAMPUS INVOLVEMENT

VCAT Robotics, **President,** Vaughn College September 2018 - May 2022

- Head Builder and Programmer of robotics team
- Used problem-solving to fix mechanical or software issues
- Made parts on CAD software for use on complex robot mechanisms
- Created driver strategies and autonomous routines

Society of Women Engineers, **Active Member,** Vaughn College September 2020 – May 2022

- Ran workshops to teach others the fundamentals of STEM

EXPERIENCE

Student Instructor September 2019 – May 2022

Vaughn College, Flushing, NY

- Tutored students with engineering courses ranging from mechanical to electrical engineering

STEM Instructor July 2021 – September 2021

KG Computech, Flushing, NY

- Taught middle school students how to design, program, and construct an electromechanical system

Mechatronics Engineer I June 2022 - September 2023

Arcbest Technologies, Fort Smith, AR

- Proto-typed to produced camera and sensor brackets by 3d printing, bending, milling, and laser-cutting
- Designed control systems for hydraulic systems

Mechatronics Engineer II October 2023 - Present

Arcbest Technologies, Fort Smith, AR

- lead projects from scratch through joint venture
- Worked collaboratively to troubleshoot and resolve production and customer issues
- Working experience with AMR safety systems

PROJECTS & PUBLICATIONS

- Marquez, M. (2021). **Intelligent Robot Design for VEX U Skills Challenge "Change Up".** 19th LACCEI International Multi-Conference for Engineering, Education, and Technology.
- Marquez, M. (2022). **Competitive Design Process for VEX U Competition "Tipping Point".** 20th LACCEI International Multi-Conference forEngineering, Education, andTechnology.

RELEVANT COURSEWORK

DC/AC Circuits | Electronic Circuits | Engineering Graphics | CATIA | Strength of Materials | Statics | Fluid Mechanics | Thermodynamics | Material Science and Failure Analysis | Digital Systems Design | Chemistry | Dynamics | Mechanical Testing and Evaluation Lab | Heat Transfer | Computational Methods | Finite Element Analysis | Microprocessors | Control Systems | | Machine Design