

Alec Medina

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Summary

Electrical Engineering student with experience in industrial automation, currently seeking an opportunity as an intern to broaden skills in electrical engineering & computer science.

Education

UNIVERSITY OF HOUSTON | HOUSTON, TEXAS | SPRING 2021

Bachelor of Science in Electrical Engineering

Minor: Computer Science

GPA: 3.911

Honors: Dean's List Fall 2018, Roy & Lillie Cullen Scholarship Fall 2019

Relevant Coursework

Computing & Problem Solving for Engineers, Data Structures, Computer Architecture, Programming Applications in EE, Numerical Methods, Circuits 1&2, Signals and Systems

Skills

Java, C/C++, Python, MATLAB, ARMv7, Object Oriented Programming, Linux (Ubuntu 16.04 LTS), PLCs, DCS systems, OSI Pi, Microsoft Office

Engineering Experience

AUTOMATION ENGINEER (INTERN) | COVESTRO | MAY 2019 – AUGUST 2019

- Assisted the automation group in data verification & collection, training development, OSI Pi screen development, & operational technology security.
- Designed a light, stable & consistent system throughout the plant to automatically log off DeltaV & Windows users at specified times to reinforce OT security requirements in all Baytown Covestro units.

AUTOMATION ENGINEER (INTERN) | CHAMPION TECHNOLOGY | JANUARY 2019 – MAY 2019

- Assisted a team of engineers in designing, implementing and ongoing maintenance of various PLC, and HMI systems-hardware & software.
- Performed a study of an Allen Bradley PLC system on an offshore rig for Anadarko. The task was to reverse engineer code to populate a cause & effect chart for safety shutdown logic.

Other Experience

TEACHING ASSISTANT | UNIVERSITY OF HOUSTON | AUGUST 2018 – DECEMBER 2019

- Assisted professors in teaching students the fundamentals of MATLAB programming by attending lectures for in-class help, holding office hours for students to come for help on homework, projects & test reviews, proctoring exams, as well as be a mentor for students.

Organizations

IEEE Makers | Documentation Officer Fall 2019, Resource Coordinator Spring 2020

Institute of Electrical and Electronics Engineers | Member Spring 2018 – Present

Society of Hispanic Professional Engineers | Member Spring 2018 – Present

Phi Theta Kappa | Member Fall 2017 - Present