

ALFREDO FLORES

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Skills

PROFESSIONAL

Leadership
Public Speaking
Customer Service
Teaching
Teamwork
Time Management

LANGUAGES

Fluent Spanish
Conversational French
Conversational Japanese

TECHNICAL

Windows XP, 7, 10
Mac OS X
Ubuntu 14.04
Soldering
PCB Design
Creo
AutoCAD
EAGLE
HTML5
SKM
Arc Flash Evaluation
Short Circuit Evaluation
Pipetting
Revit

PROGRAMMING LANGUAGES

NXT-G
MATLAB
LabVIEW
Python

COURSE WORK

Linear Algebra
Partial Differential Equations
Numerical Methods
Digital Logic Design
Electric Circuits
Electronic Devices
Analog Devices
Transform Methods
Dynamic Systems and Stability
Intro to Nuclear Engineering
Power Systems
Energy Management Principles
Electric Motor Control Principles
Adv. Programming for Engineers

Education

Drexel University

Bachelor of Science: Electrical Engineering - June 2019
Minors: Mathematics, STEM Education - June 2019
Cumulative GPA: 3.48

Employment

BR+A Consulting Engineers

Electrical Design Engineer Philadelphia, PA
Feb. 2020 to Current

- Design, draft, and compile electrical drawings pertaining to power, lighting, and fire alarm
- Develop riser diagrams and panel schedules for the power, lighting, and fire alarm systems
- Participate in coordination meetings to discuss scope and progress of ongoing projects

W.B. Engineers + Consultants

Engineer New York, NY
Sept. 2019 to Jan. 2020

- Designed, drafted, and compiled drawing packets containing electrical, fire alarm, and lighting plans
- Created riser diagrams and schedules for electrical, fire alarm, and lighting systems
- Conducted surveys of electrical power distribution as well as HVAC and plumbing systems
- Aided with special inspections in order to assess the sprinkler system of buildings
- Participated in coordination meetings to discuss scope and progress for projects
- Met with clients, contractors, and landlords to carry out surveys and coordinate project

Burns Engineering - Facilities and Infrastructures Group

Electrical Engineering Co-op Philadelphia, PA
Sept. 2016 to Mar. 2017

- Designed and drafted electrical system operating diagrams detailing power distribution
- Wrote and revised technical reports concerning the status updates of projects
- Surveyed the electrical distribution system for PWD, PGW, and Amtrak stations
- Compiled drawing packets that contained site plans, electrical diagrams, and specifications
- Participated in business proposal meetings to discuss specifications about potential projects
- Obtained certification to become an official Amtrak Contractor

Projects

SeaVital - Electrical Design Lead

Oct. 2018 to Current

- Working in a team of five to design an autonomous solution for water-based rescue efforts
- Designing the electrical control system required to operate the rescue device
- Integrating an infrared camera into the control system for target detection
- Incorporating an ultrasonic sensor into the control system for collision detection
- Assisting with the overall programming effort for the device and its subsystems

Awards & Certifications

NCEES · Engineer In Training

Aug. 2019

Credential ID: ET028222

Drexel University · A.J. Drexel Academic Scholarship

Sept. 2018

Drexel University · Drexel Dragon Scholarship

Sept. 2018

Activities

Drexel IEEE · President

Apr. 2017 to June 2019

Engineers Without Borders · Member

Feb. 2017 to June 2019

References

Daniel Luig - Director of Lab Managers | 215-895-2245 | daniel.d.luig@drexel.edu

Philip Gonski - Project Manager | 630-363-0790 | pgonski@burns-group.com

Robert Swayne - Chief Electrical Engineer | 942-212-3831 | swaynerb@gmail.com

Dylan Volpintesta - Higher Education Professional | 920-939-1281 | sdylanv18@gmail.com