

# Vazgen Avakyan

## Electrical & Computer Engineer

Philadelphia, PA - Email me on Indeed: [indeed.com/r/Vazgen-Avakyan/b3b327096443c4ad](https://www.indeed.com/r/Vazgen-Avakyan/b3b327096443c4ad)

To obtain a growth position in electrical and computer engineering. Fields of interest include analog/digital circuit design, programming and power.

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Electrical Engineer

Concord Engineering Group - Voorhees, NJ - October 2013 to Present

##### Responsibilities

Engineer and Design Carlstradt Substation from 26kV system to 69kV for PSE&G

Design electrical layout using Microstation V8i and design a single line diagram using ETAP 12.5

CDEGS: Perform modeling of the expanded grounding grid system for PSE&G switching station.

Soil Resistivity Interpretation

Fault Current Distribution Analysis

Grounding System Performance Evaluation

Conductor Ampacity

##### Accomplishments

Grounding Calculation using CDEGS & ETAP for PSE&G Substation

Lightning Calculation using Rolling Spheres and Empirical Methods for PSE&G Substation

##### Skills Used

CDEGS, ETAP 14.0, MicroStation V8i, AutoCAD 2014, Excel (macros)

#### Electrical Engineer

Henkel & McCoy - Blue Bell, PA - September 2010 to Present

Description: Work on electric distribution and transmission projects. Field surveying distribution poles and transmission line including the substation. Drafting line layout and completion of required design calculations using AutoCAD and Microstation.

#### Hardware Programmer

ECI Telecom - Pittsburgh, PA - May 2010 to August 2010

Description: Design, validates, and maintains schematics and layouts for various PCBs, mainly high-speed digital boards with FPGAs and/or embedded microcontrollers.

#### Hardware Engineer and Software Engineering department

Design - Norristown, PA - 2009 to 2009

validate, and maintain VHDL code designed to operate on the electronics hardware. Work with Hardware Engineer and Software Engineering department.

ADT Advanced Integration, Norristown, PA

Application Intern Engineer Summer semester 2009

Description: Design pre-installation the layout of the cameras using AutoCAD, test megapixel

cameras and set up IP networks for the cameras.

### **Installer**

Angel Heating & Cooling - Philadelphia, PA - 2007 to 2008

Description: Full installation of the heater and air condition including full duct work and the electrical wiring.

### **Technical Support**

Coast to Coast Ship Supply Inc - Philadelphia, PA - 2004 to 2006

Description: Quoting work orders, Interfacing with customers, preparing product for shipment, researching product inventory

## **EDUCATION**

### **Bachelor's in Electrical Engineering**

The Pennsylvania State University - College of Engineering - State College, PA  
2005 to 2010

## **SKILLS**

HTML (10+ years), CSS (10+ years), Bootstrap (2 years), SEO (10+ years), Xcode (3 years), MathCAD (3 years), MatLab (1 year), C++ (5 years), VHDL (1 year), Sketch (2 years), Dreamweaver (5 years), Visual Basics (4 years), Pro Engineering (1 year), MySQL (5 years), Adobe CS6 (5 years), ETAP (4 years), Microsoft Office (10+ years), AutoCAD MEP 2014 (2 years), MicroStation V8i Descartes (10+ years), Windows Server 2012 R2 (3 years)

## **LINKS**

<http://www.linkedin.com/in/musclenerd>

<http://www.vazavakyan.com>

## **ADDITIONAL INFORMATION**

### **COMPUTER SKILLS:**

HTML5 MathCAD 14 Dreamweaver CS6 ETAP 12.0 (one-line diagram)

CSS3 MatLAB Visual Basics Microsoft Office (developer)

Bootstrap C++ Pro-Engineering AutoCAD MEP 2014

SEO VHDL MySQL MicroStation V8i Descartes

Xcode (iOS) Sketch 3 Adobe CS6 (master) Windows Server 2012 R2