

Vazgen Avakyan

815 N Orianna St. • Philadelphia, PA. 19123 • 267-632-8934

vxa133@gmail.com

<http://www.vazavakyan.com>

<https://www.linkedin.com/in/MuscleNerd>

EDUCATION: **The Pennsylvania State University – College of Engineering – Class of 2010**
B.S. Electrical Engineering. Cumulative GPA: 3.12 / 4.0
Certificate of Completion, Fundamentals of Engineering Exam (FE)
Register for Professional Engineer in Pennsylvania for Spring 2017

COMPUTER SKILLS:

ETAP 12.0 (one-line diagram)	MathCAD 14	Dreamweaver CS6	HTML5
Microsoft Office (developer)	MatLAB	Visual Basics	CSS3
AutoCAD MEP 2014	C++	Pro-Engineering	Bootstrap
MicroStation V8i Descartes	VHDL	MySQL	SEO
Windows Server 2012 R2	Sketch 3	Adobe CS6 (master)	Xcode (iOS)

WORK HISTORY:

Concord Engineering Group, Voorhees, NJ
Engineer: Electrical Engineer **November 2013 to Present**
Description: Engineer and Design Carlstradt Substation from 26kV system to 230kV for PSE&G
Design electrical layout using Microstation V8i and design a single line diagram using ETAP 12
Grounding & Lightning Calculation for PSE&G using CDEGS (SES) and ETAP 14.0

Henkel & McCoy, Blue Bell PA
Engineer: Engineer **September 2010 to October 2013**
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.
ETAP Modeling: Power Flow Studies, Thermal Studies, Short Circuit Analysis, Arc Flash Analysis, Coordination Studies.

ECI Telecom, Pittsburgh PA
Logic Design Team: Hardware Programmer **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.
Design, 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.

Angel Heating & Cooling, Philadelphia, PA
Installer: Electrician **Summer semester 2007 – 2008**
Description: Full installation of the heater and air condition including full duct work and the electrical wiring.

TEAM EXPERIENCE:

RoboHoops Robotic Competition
Successfully designed and construction a programmable autonomous robot.
Worked in a team to design a robot that can pick up a ball, detect a light source, and successfully shoot a ball into a hoop.

AWARDS AND ACTIVITIES:

RoboHoops Competition bronze medal	Fall 2007
Penn State Robotics Club	August 2008 – May 2010
Penn State Chess Club	August 2008 – May 2010
Member of IEEE	September 2008 – Present

UNIQUE SKILLS:

Bilingual. Fluent in Russian (written and spoken)