BERNARD KO

ENGINEER I 646-457-5249

DETAILS

Philadelphia, PA
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LINKS

https://github.com/Bko-hashing

SKILLS

- MatLAB
- Python
- C/C++
- TypeScript
- Java
- React

PROFILE

I'm currently employed as an Electrical Engineer at HBK Engineering, LLC. At my current position, I had an opportunity to learn various skills such as time management, teamwork, communication skills and critical thinking. I have utilized Python to generate a working program that detects faults in circuitry via thermal temperatures. This planted a seed of passion early on in my career. As I was working on my personal website using React, my small passion for coding was rekindled. I'm passionate about learning new skills and software development. I'm looking forward to pursuing a new career as a software engineer.

EMPLOYMENT HISTORY

Engineer I , HBK Engineering, LLC. , Philadelphia,PA

February 2023 — Present

- Engineered replacements for PECO's equipment in manholes and pole replacements to meet the growing energy demands.
- Managed client's assets and work orders using Asset Suite 8.
- Spearheaded PECO's pole replacement program for various counties to reduce costs and increase efficiency.
- Drafted designs for facility and utility line replacements to solve PECO's various problems surrounding the utility line and/or poles such as vegetation infestation and energy demands.
- Drafted project proposals for HBK to outbid its competition. Such impact includes but not limited to minimizing cost & labor and increasing profitability.

Meter Engineer Intern , New York Power Authority , Astoria, NY

June 2022 — December 2022

- Drafted 1 & 3-line technical drawings and schematics using AutoCAD.
- Engineered potential and current transformer replacements for NYPA's 69/115KV substations
- Designed & supported meter installation and instrument upgrades for NYPA's facilities and its municipalities.
- Verified and submitted customers' daily metering data using MV90 to NYISO.
- Calibrated & tested revenue/generator control meters for NYPA's substation to meet ANSI & IEEE standards.

EDUCATION

Bachelor of Engineering, Electrical Engineering, Minor in Mathematics, CUNY City College of New York, New York City

PROJECTS

Thermal Fault Detection

Used Python and basic machine learning concepts to create a program that compares thermal images of electrical circuits to detect faulty components that need to be replaced.