Lucas Zlock

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EDUCATION:

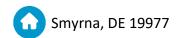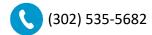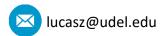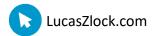**University of Delaware**   **Newark, DE**

Master of Science, Electrical and Computer Engineering   Expected graduation, May 2023

University of Delaware   **Newark, DE**

Bachelor of Science, Electrical Engineering   May 2020

CERTIFICATION:

Engineer Intern   **Delaware Association of Professional Engineers**

Passed the Fundamentals of Engineering exam   September 2020

WORK EXPERIENCE:

Delaware Electric Cooperative   **Greenwood, DE**

Manager of Energy Services   January 2023 – Present

- Large/Key member management – main point of contact
- Development and advancement of demand response, efficiency, and grant programs
- Managing strategic grid planning and integration of EVs, DERs, etc.
- Liaison for work groups and committees focused on infrastructure, EV and DER penetration, etc.
- Analysis and comparison of rates and supply costs (internally and externally)
- Strategic grid planning and integration of EVs, DERs, etc.
- Routine analysis of load, temperature, and generation data

System Engineer   June 2020 – January 2023

- System optimization and coordination (equipment replacement, backfeeds, TC curves, fault currents, etc.)
- Troubleshooting customer issues (pool shockings, VFD equipment issues, etc.)
- Load balancing, phasing, and transformer sizing
- Analysis of load data vs. generation interconnection data
- Management of utility-scale solar generation assets (monitoring output, coordinating O&M, etc.)
- Training department interns in topics such as power, transmission/distribution, and general engineering

University of Delaware IT Client Support Services   **Newark, DE**

IT Client Support   January 2019 – May 2020

- Assist clients with various computer issues (internet connection, software installation, bugs/viruses, etc.)

SKILLS:

Technical: Programming + Scripting (C/C++, Python), CAD (Plans, 3D Models, PCBs), Graphic + Web Design

Software Proficiencies: AutoCAD, Fusion 360, WindMil Utility Engineering Analysis, SPIDAcalc Structural Analysis, PoleForeman Pole Load Analysis, Eaton CYMTCC, Microsoft Office, NISC iVUE, EATON YUKON

Operating Systems: Advanced knowledge of Windows OS, adept knowledge of both Mac and Linux OS

Electronic: Circuit Design + Troubleshooting, Soldering, PCB Design, Component choice, Prototyping

Machine & Auto: Repair and Maintenance, Body Work, Electrical, Tuning, Restoration