

# Murphy Metzger Smith



(615)-924-0645



msmit391@vols.utk.edu



1621 Forest Ave. Knoxville, TN 37916

Electrical Engineering Student

## Objective

A goal-oriented, driven Electrical Engineering student with proven, highly technical problem-solving skills. A passion for full immersion into new challenges drives my desire for continuous self-improvement.

## Education

**B.S. in Electrical Engineering**

University of Tennessee at Knoxville

GPA – 3.58/4.0

Expected Graduation – May 2023

## Engineering Experience

Lead

Technician

*CleanAir Engineering* – Powell, TN - May 2021 - Present

- Utilize electronics proficiency as a Lead Technician Capacity for a fast-paced, team oriented, successful Engineering Services Performance testing Company
- Create, repair, and modify hundreds of analog and digital electronics valued at \$80,000+ weekly to include: Agilent data acquisition systems, high precision calibration equipment, RTDs, custom-made power supplies, high precision meteorological stations, and Rosemount pressure sensors
- Improve Quality Assurance techniques and practices to ensure continued field engineer success and client satisfaction
- Act as a field engineer to complete drift emissions testing, cooling tower thermal performance testing, and evaporative cooler testing for gas turbines

Engineering

Intern

*CleanAir Engineering* – Powell, TN - May 2021 – December 2021

- Calibrated and tested 1,000+ high both digital and analog low temperature RTDs, 50+ data acquisition systems, 12+ power meters, 30+ relative humidity sensors, and other high precision engineering equipment ahead of field engineering performance testing
- Trained incoming interns to perform calibration tasks efficiently and thoroughly

## Skills

- |            |             |                   |                  |                   |
|------------|-------------|-------------------|------------------|-------------------|
| • AutoCAD  | • LT-Spice  | • Ableton Live    | • 3D Printing    | • Problem Solving |
| • Inventor | • Soldering | • VHDL            | • Communication  | • Versatility     |
| • C++      | • MS Suite  | • Troubleshooting | • Teamwork       | • Leadership      |
| • Python   | • Arduino   | • Creativity      | • Accountability | • Woodworking     |

## Other Experience

L.E.D. Light Suits

Project leader for team to build 12 L.E.D. light suits for local theater department

Physics 1 & 2

Project leader for both first year engineering fundamentals (physics) final projects

Team Captain

*Franklin HS Hockey Team* - Franklin, TN - Aug. 2017 – Mar. 2018

Kitchen Shift Leader

*Chuck E. Cheese* - Franklin, TN - Jan. 2016 – May 2018